



; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No. 6476212 700381005H1  
; NAME/KEY: unsure  
; LOCATION: 87, 254, 276, 286  
; OTHER INFORMATION: a, t, c, g, or other  
US-09-313-294A-7021

Query Match 0.4%; Score 20; DB 4; Length 311;  
Best Local Similarity 100.0%; Pred. No. 14;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4827 CAACTCCACCGTCTCCAGGA 4846  
DB 115 CAACTCCACCGTCTCCAGGA 96

#### RESULT 3

US-09-401-064-165/c  
; Sequence 165, Application US/09401064  
; Patent No. 6623923  
; GENERAL INFORMATION:  
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Lodes, Michael J.  
; APPLICANT: Secrist, Heather  
; APPLICANT: Benson, Darin R.  
; APPLICANT: Mesgher, Madeline Joy  
; APPLICANT: Stolk, John A.  
; APPLICANT: Wang, Tongtong  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND  
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.471C2  
; CURRENT APPLICATION NUMBER: US/09/401,064  
; CURRENT FILING DATE: 1999-09-22  
; NUMBER OF SEQ ID NOS: 371  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 165  
; LENGTH: 462  
; TYPE: DNA  
; ORGANISM: Homo sapien  
US-09-401-064-165

Query Match 0.4%; Score 20; DB 4; Length 462;  
Best Local Similarity 100.0%; Pred. No. 14;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4827 CAACTCCACCGTCTCCAGGA 4846  
DB 116 CAACTCCACCGTCTCCAGGA 97

#### RESULT 4

US-09-385-982-238/c  
; Sequence 238, Application US/09385982  
; Patent No. 6262334  
; GENERAL INFORMATION:  
; APPLICANT: ENDEGE, WILSON O., ET AL.  
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION  
; TITLE OF INVENTION: PRODUCTS: II  
; FILE REFERENCE: CCDNA-260XX  
; CURRENT APPLICATION NUMBER: US/09/385,982  
; CURRENT FILING DATE: 1999-08-30  
; EARLIER APPLICATION NUMBER: 09/328,111  
; EARLIER FILING DATE: 1999-06-08  
; EARLIER APPLICATION NUMBER: 60/117,393  
; EARLIER FILING DATE: 1999-01-27  
; EARLIER APPLICATION NUMBER: 60/098,639  
; EARLIER FILING DATE: 1998-08-31  
; NUMBER OF SEQ ID NOS: 544  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 238  
; LENGTH: 616  
; TYPE: DNA  
; ORGANISM: Homo sapiens

; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)...(616)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-385-982-238

Query Match 0.4%; Score 20; DB 3; Length 616;  
Best Local Similarity 100.0%; Pred. No. 14;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4827 CAACTCCACCGTCTCCAGGA 4846  
DB 71 CAACTCCACCGTCTCCAGGA 52

#### RESULT 5

US-09-252-991A-2754  
; Sequence 2754, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 2754  
; LENGTH: 894  
; TYPE: DNA  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-2754

Query Match 0.4%; Score 20; DB 4; Length 894;  
Best Local Similarity 100.0%; Pred. No. 14;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1920 GGAGACCGCGCATGACCTTCG 1939  
DB 687 GGAGACCGCGCATGACCTTCG 706

#### RESULT 6

US-09-252-991A-2651  
; Sequence 2651, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 2651  
; LENGTH: 1029  
; TYPE: DNA  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-2651

Query Match 0.4%; Score 20; DB 4; Length 1029;  
Best Local Similarity 100.0%; Pred. No. 14;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1920 GGAGACCGCGCATGACCTTCG 1939

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Db      361 GGAGACCGGATGACCTTCG 380
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RESULT 7
US-09-252-991A-3212/c
; Sequence 3212, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 3212
; LENGTH: 1455
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-3212
Query Match      0.4%; Score 20; DB 4; Length 1455;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1920 GGAGACCGGATGACCTTCG 1939
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Db      322 GGAGACCGGATGACCTTCG 303
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RESULT 8
US-09-976-594-779/c
; Sequence 779, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:
; APPLICANT: Furness, Michael
; APPLICANT: Buchbinder, Jenny
; TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
; FILE REFERENCE: PA-0041 US
; CURRENT APPLICATION NUMBER: US/09/976,594
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/240,409
; PRIOR FILING DATE: 2000-10-12
; NUMBER OF SEQ ID NOS: 1143
; SOFTWARE: PERL Program
; SEQ ID NO 779
; LENGTH: 1456
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6673549 1384715.4
; NAME/KEY: unsure
; LOCATION: 1453
; OTHER INFORMATION: a, t, c, g, or other
US-09-976-594-779
Query Match      0.4%; Score 20; DB 4; Length 1456;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      4827 CAACTCCACCGTCTCCAGGA 4845
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Db      425 CAACTCCACCGTCTCCAGGA 406
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RESULT 9
US-08-630-915A-31

```

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; Sequence 31, Application US/08630915A
; Patent No. 6309820
; GENERAL INFORMATION:
; APPLICANT: SPARKS, Andrew B.
; APPLICANT: HOFFMAN, No. 6309820h
; APPLICANT: KAY, Brian K.
; APPLICANT: FOWLKES, Dana M.
; APPLICANT: MCCONNELL, Stephen J.
; TITLE OF INVENTION: POLYPEPTIDES HAVING A FUNCTIONAL
; TITLE OF INVENTION: DOMAIN OF INTEREST AND METHODS OF IDENTIFYING AND
; NUMBER OF SEQUENCES: 227
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/630,915A
; FILING DATE: 03-APR-1996
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Mistrock, S. Leslie
; REGISTRATION NUMBER: 18,872
; REFERENCE/DOCKET NUMBER: 1101-174
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 31:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1636 bases
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-630-915A-31
Query Match      0.4%; Score 20; DB 4; Length 1636;
Best Local Similarity 100.0%; Pred. No. 15;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      4179 GCTGCAGAGCAAGCTGGAGT 4198
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Db      863 GCTGCAGAGCAAGCTGGAGT 882
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RESULT 10
US-09-820-312D-702/c
; Sequence 702, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenchua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yungqing
; APPLICANT: Wang, Dunrui

```

APPLICANT: Wang, Zhiwei  
APPLICANT: John Tillingshast  
APPLICANT: Dmanac, Radoje T.  
TITLE OF INVENTION: No. 6569662el Nucleic Acids and  
TITLE OF INVENTION: Polypeptides  
FILE REFERENCE: 784CIP28  
CURRENT APPLICATION NUMBER: US/09/620,312D  
PRIOR FILING DATE: 2000-07-19  
PRIOR APPLICATION NUMBER: 09/552,317  
PRIOR FILING DATE: 2000-04-25  
PRIOR APPLICATION NUMBER: 09/488,725  
PRIOR FILING DATE: 2000-01-21  
NUMBER OF SEQ ID NOS: 1105  
SOFTWARE: pt\_FL\_genes Version 1.0  
SEQ ID NO 702  
LENGTH: 2522  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (179)..(1606)  
US-09-620-312D-702

Query Match 0.4%; Score 20; DB 4; Length 2522;  
Best Local Similarity 100.0%; Pred. No. 15;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1888 CACCATGTCGTACAGCTTCA 1907  
Db 517 CACCATGTCGTACAGCTTCA 498

RESULT 11  
US-09-105-537-30/c  
Sequence 30, Application US/09105537A  
Patent No. 6265202  
GENERAL INFORMATION:  
APPLICANT: Sherman, D.H.  
APPLICANT: Liu, H.  
APPLICANT: Xue, Y.  
APPLICANT: Zhao, L.  
TITLE OF INVENTION: DNA encoding methymycin and pikromycin  
FILE REFERENCE: 600.438US1  
CURRENT APPLICATION NUMBER: US/09/105,537A  
CURRENT FILING DATE: 1998-06-26  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 30  
LENGTH: 13842  
TYPE: DNA  
ORGANISM: Streptomyces venezuelae  
US-09-105-537-30

Query Match 0.4%; Score 20; DB 3; Length 13842;  
Best Local Similarity 100.0%; Pred. No. 16;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4828 AACTCCACCGTCTCCAGGAC 4847  
Db 10196 AACTCCACCGTCTCCAGGAC 10177

RESULT 12  
US-09-105-537-5/c  
Sequence 5, Application US/09105537A  
Patent No. 6265202  
GENERAL INFORMATION:  
APPLICANT: Sherman, D.H.  
APPLICANT: Liu, H.  
APPLICANT: Xue, Y.  
APPLICANT: Zhao, L.  
TITLE OF INVENTION: DNA encoding methymycin and pikromycin  
FILE REFERENCE: 600.438US1

CURRENT APPLICATION NUMBER: US/09/105,537A  
CURRENT FILING DATE: 1998-06-26  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 5  
LENGTH: 36778  
TYPE: DNA  
ORGANISM: Streptomyces venezuelae  
US-09-105-537-5

Query Match 0.4%; Score 20; DB 3; Length 36778;  
Best Local Similarity 100.0%; Pred. No. 17;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4828 AACTCCACCGTCTCCAGGAC 4847  
Db 11937 AACTCCACCGTCTCCAGGAC 11918

RESULT 13  
US-09-320-878-19/c  
Sequence 19, Application US/09320878A  
Patent No. 6117659  
GENERAL INFORMATION:  
APPLICANT: ASHLEY, Gary  
APPLICANT: BETLACH, Melanie C.  
APPLICANT: MCDANIEL, Robert  
APPLICANT: TANG, Li  
TITLE OF INVENTION: RECOMBINANT NARBONOLIDE POLYKETIDE SYNTHASE  
FILE REFERENCE: 300622002120  
CURRENT APPLICATION NUMBER: US/09/320,878A  
CURRENT FILING DATE: 1998-05-27  
EARLIER APPLICATION NUMBER: CIP OF 09/141,908  
EARLIER FILING DATE: 1998-08-28  
EARLIER APPLICATION NUMBER: CIP OF 09/073,538  
EARLIER FILING DATE: 1998-05-06  
EARLIER APPLICATION NUMBER: CIP OF 08/846,247  
EARLIER FILING DATE: 1997-04-30  
EARLIER APPLICATION NUMBER: 60/119,139  
EARLIER FILING DATE: 1999-02-08  
EARLIER APPLICATION NUMBER: 60/100,880  
EARLIER FILING DATE: 1998-09-22  
EARLIER APPLICATION NUMBER: 60/087,080  
EARLIER FILING DATE: 1998-05-28  
NUMBER OF SEQ ID NOS: 34  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 19  
LENGTH: 38506  
TYPE: DNA  
ORGANISM: Streptomyces venezuelae  
US-09-320-878-19

Query Match 0.4%; Score 20; DB 3; Length 38506;  
Best Local Similarity 100.0%; Pred. No. 17;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4828 AACTCCACCGTCTCCAGGAC 4847  
Db 10079 AACTCCACCGTCTCCAGGAC 10060

RESULT 14  
US-09-141-908-1/c  
Sequence 1, Application US/09141908  
Patent No. 6503741  
GENERAL INFORMATION:  
APPLICANT: ASHLEY, Gary  
APPLICANT: BETLACH, Melanie C.  
APPLICANT: MCDANIEL, Robert  
APPLICANT: TANG, Li  
TITLE OF INVENTION: Combinatorial Polyketide Libraries Produced Using a



; TITLE OF INVENTION: Modular PKS Gene Cluster as Scaffold

; FILE REFERENCE: 300622002100  
; CURRENT APPLICATION NUMBER: US/09/141,908  
; CURRENT FILING DATE: 1998-08-28  
; EARLIER APPLICATION NUMBER: CIP OF 09/073,538  
; EARLIER FILING DATE: 1998-05-06  
; EARLIER APPLICATION NUMBER: CIP OF 08/846,247  
; EARLIER FILING DATE: 1997-04-30  
; EARLIER APPLICATION NUMBER: PROV. 60/076,919  
; EARLIER FILING DATE: 1998-03-05  
; EARLIER APPLICATION NUMBER: PROV. 60/087,080  
; EARLIER FILING DATE: 1998-05-28  
; NUMBER OF SEQ ID NOS: 31  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 38506  
; TYPE: DNA  
; ORGANISM: Streptomyces venezuelae  
US-09-141-908-1

Query Match 0.4%; Score 20; DB 4; Length 38506;  
Best Local Similarity 100.0%; Pred. No. 17;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4828 AACTCCACCGTCTCCAGGAC 4847  
Db 10079 AACTCCACCGTCTCCAGGAC 10060

#### RESULT 15

US-09-657-440-19/c  
; Sequence 19, Application US/09657440  
; Patent No. 6509455  
; GENERAL INFORMATION:  
; APPLICANT: ASHLEY, Gary  
; APPLICANT: BETLACH, Melanie C.  
; APPLICANT: BETLACH, Mary C.  
; APPLICANT: MCDANIEL, Robert  
; APPLICANT: TANG, Li  
; TITLE OF INVENTION: RECOMBINANT NARBONOLIDE POLYKETIDE SYNTHASE  
; FILE REFERENCE: 300622002120  
; CURRENT APPLICATION NUMBER: US/09/657,440  
; CURRENT FILING DATE: 2000-09-07  
; PRIOR APPLICATION NUMBER: 09/320,878  
; PRIOR FILING DATE: 1999-05-27  
; PRIOR APPLICATION NUMBER: CIP OF 09/141,908  
; PRIOR FILING DATE: 1998-08-28  
; NUMBER OF SEQ ID NOS: 34  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 19  
; LENGTH: 38506  
; TYPE: DNA  
; ORGANISM: Streptomyces venezuelae  
US-09-657-440-19

Query Match 0.4%; Score 20; DB 4; Length 38506;  
Best Local Similarity 100.0%; Pred. No. 17;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4828 AACTCCACCGTCTCCAGGAC 4847  
Db 10079 AACTCCACCGTCTCCAGGAC 10060

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Job time : 265 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: May 23, 2004, 11:35:39 ; Search time 1466 Seconds  
(without alignments)  
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Title: US-09-964-956-12

Perfect score: 5691

Sequence: 1 atgaagccatgccttgaa.....gcttagacagctgaataaa 5691

Scoring table: OLIGO\_NUC

Gapop 60.0 , Gapext 50.0

Searched: 2953838 seqs, 2272363821 residues

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Minimum DB seq length: 0

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Post-processing: Listing first 45 summaries

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- 9: /cgn2\_6/ptodata/2/pubpna/US09A\_PUBCOMB.seq.\*
- 10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq.\*
- 11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq.\*
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- 14: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq.\*
- 15: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq.\*
- 16: /cgn2\_6/ptodata/2/pubpna/US10C\_PUBCOMB.seq.\*
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- 18: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*
- 19: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	5532	97.2	6367	17	US-10-451-010-19
3	1108	19.5	3666	16	US-10-108-260A-802
4	793	13.9	2597	13	US-10-245-752-91
5	793	13.9	2597	13	US-10-245-859-91
6	793	13.9	2597	13	US-10-245-103-91
7	793	13.9	2597	15	US-10-245-107-91
8	793	13.9	2597	15	US-10-245-143-91
9	793	13.9	2597	15	US-10-245-171-91
10	793	13.9	2597	15	US-10-245-771-91
11	793	13.9	2597	15	US-10-245-883-91
12	793	13.9	2597	15	US-10-237-535-91
13	793	13.9	2597	15	US-10-238-183-91
14	793	13.9	2597	15	US-10-238-283-91

15	793	13.9	2597	15	US-10-238-370-91	Sequence 91, Appl
16	793	13.9	2597	15	US-10-245-055-91	Sequence 91, Appl
17	793	13.9	2597	15	US-10-245-147-91	Sequence 91, Appl
18	793	13.9	2597	15	US-10-245-730-91	Sequence 91, Appl
19	793	13.9	2597	15	US-10-245-739-91	Sequence 91, Appl
20	793	13.9	2597	15	US-10-246-210-91	Sequence 91, Appl
21	793	13.9	2597	15	US-10-239-196-91	Sequence 91, Appl
22	793	13.9	2597	15	US-10-243-024-91	Sequence 91, Appl
23	793	13.9	2597	15	US-10-243-409-91	Sequence 91, Appl
24	793	13.9	2597	15	US-10-245-621-91	Sequence 91, Appl
25	793	13.9	2597	15	US-10-245-880-91	Sequence 91, Appl
26	793	13.9	2597	15	US-10-245-033-91	Sequence 91, Appl
27	793	13.9	2597	15	US-10-243-095-91	Sequence 91, Appl
28	793	13.9	2597	15	US-10-245-185-91	Sequence 91, Appl
29	793	13.9	2597	15	US-10-245-427-91	Sequence 91, Appl
30	793	13.9	2597	15	US-10-245-473-91	Sequence 91, Appl
31	793	13.9	2597	15	US-10-245-770-91	Sequence 91, Appl
32	793	13.9	2597	15	US-10-246-877-91	Sequence 91, Appl
33	793	13.9	2597	15	US-10-246-976-91	Sequence 91, Appl
34	793	13.9	2597	15	US-10-243-320-91	Sequence 91, Appl
35	793	13.9	2597	15	US-10-242-743-91	Sequence 91, Appl
36	793	13.9	2597	15	US-10-242-845-91	Sequence 91, Appl
37	793	13.9	2597	15	US-10-237-636-91	Sequence 91, Appl
38	793	13.9	2597	15	US-10-238-325-91	Sequence 91, Appl
39	793	13.9	2597	15	US-10-238-346-91	Sequence 91, Appl
40	793	13.9	2597	15	US-10-238-411-91	Sequence 91, Appl
41	793	13.9	2597	15	US-10-243-124-91	Sequence 91, Appl
42	793	13.9	2597	15	US-10-243-425-91	Sequence 91, Appl
43	793	13.9	2597	15	US-10-243-446-91	Sequence 91, Appl
44	793	13.9	2597	15	US-10-245-874-91	Sequence 91, Appl
45	793	13.9	2597	15	US-10-242-653-91	Sequence 91, Appl

ALIGNMENTS

RESULT 1

US-09-964-956-12  
; Sequence 12, Application US/09964956  
; Publication No. US20040043926A1  
; GENERAL INFORMATION:  
; APPLICANT: Gerlach, Valerie L  
; APPLICANT: MacDougall, John R  
; APPLICANT: Smithson, Glennda  
; APPLICANT: Millet, Isabelle  
; APPLICANT: Stone, David  
; APPLICANT: Gunther, Erik  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Grosse, William M  
; APPLICANT: Alsobrook II, John P  
; APPLICANT: Lepley, Denise M  
; APPLICANT: Burgess, Catherine E  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Kekuda, Ramesh  
; APPLICANT: Spytek, Kimberly A  
; APPLICANT: Leach, Martin D  
; APPLICANT: Shinketsu, Richard A  
; TITLE OF INVENTION: No. US20040043926A1el Proteins and Nucleic Acids Encoding Same  
; FILE REFERENCE: 21402-124  
; CURRENT APPLICATION NUMBER: US/09/964,956  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 60/235,631  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/235,633  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/235,808  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,064  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,065  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,066  
; PRIOR FILING DATE: 2000-09-27

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; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
; PRIOR APPLICATION NUMBER: 60/238,399
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/238,396
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/276,667
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/294,823
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/304,868
; PRIOR FILING DATE: 2001-07-12
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 5691
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-956-12

Query Match      100.0%; Score 5691; DB 13; Length 5691;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 5691; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 ATGAAGCCATGCCCTGGACCTGACCTGCTCTCTCCACCTCTCTCATGCTGGCATG 60

QY 61 GGCTCCTCACTTTGCTCAACCGGAGGAGCCCGCTGTCCAGAGCAGCGGTCAATT 120
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QY 481 TCAGGTGTCAACAGAGAGCGGCTCAGTCTTTTGGAGTATCGTCTCTACAGAACCTGGAT 540
DB 481 TCAGGTGTCAACAGAGAGCGGCTCAGTCTTTTGGAGTATCGTCTCTACAGAACCTGGAT 540

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RESULT 2

US-10-451-010-19  
; Sequence 19, Application US/10451010  
; Publication No. US20040082761A1  
; GENERAL INFORMATION:  
; APPLICANT: INCYTE GENOMICS, INC.  
; APPLICANT: DUGGAN, Brendan M.  
; APPLICANT: XU, Yuming  
; APPLICANT: LEE, Ernestine A.  
; APPLICANT: LEE, Sally  
; APPLICANT: LU, Dying Aina M.  
; APPLICANT: WARREN, Bridget A.  
; APPLICANT: YUE, Henry  
; APPLICANT: GIETZEN, Kimberly J.  
; APPLICANT: HONCHELL, Cynthia D.  
; APPLICANT: BURFORD, Neil  
; APPLICANT: BAUGHN, Mariah R.  
; APPLICANT: TANG, Y. Tom  
; APPLICANT: JACKSON, Jennifer L.  
; APPLICANT: GANDHI, Ameena R.  
; APPLICANT: KALLICK, Deborah A.  
; APPLICANT: BANDMAN, Olga  
; APPLICANT: GRAUL, Richard C.  
; APPLICANT: CHAWLA, Narinder K.  
; APPLICANT: LU, Yan  
; APPLICANT: RAMKUMAR, Javalaxmi  
; APPLICANT: YAO, Monique G.  
; APPLICANT: LAL, Preeti G.  
; TITLE OF INVENTION: CELL ADHESION PROTEINS

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; FILE REFERENCE: PF-0867 USN
; CURRENT APPLICATION NUMBER: US/10/451.010
; CURRENT FILING DATE: 2003-06-17
; PRIOR APPLICATION NUMBER: PCT/US01/49206
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/256,542
; PRIOR FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: US 60/259,604
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 60/260,101
; PRIOR FILING DATE: 2001-01-05
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PERL Program
; SEQ ID NO 19
; LENGTH: 6367
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No: 7156379CB1
; FEATURE:
; NAME/KEY: unsure
; LOCATION: 166
; OTHER INFORMATION: a, t, c, g, or other
; US-10-451-010-19

Query Match          97.2%; Score 5532; DB 17; Length 6367;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5682; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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DB 686 GTCACATTCGAGAGAGCCCGCAGAGGTTTCAATCACTGGTGGTGGATGAGGACA 745
QY 181 GGACACATTTACTTTGGGGCGCTCAATCGGATTTACAAGCTTCCAGCGACCTGAGGTC 240
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QY 361 GACTACAAGGAGAACAGGCTGATTTGCTGGAGGCTGTACCAAGGATCTGCAAGCTG 420
DB 926 GACTACAAGGAGAACAGGCTGATTTGCTGGAGGCTGTACCAAGGATCTGCAAGCTG 985
QY 421 CTGAGGCTGGAGGACCTTTCAAGCTGGGAGGCTTATCATTAAGAGGAGCACTATCTG 480
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DB 2366 ATGGATGGGCTGGTGGTGGCAATCAGATCCAGTGTCTACTCCCTGTGAGCCAAAGAGGTG 2425  
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DB 2666 TGCACCCAGCTGCTGGAGTGAAGATCCTGTGTGCCGTGGAGGTGATCAAGCCTATC 2725  
QY 2161 ACGCTGAAGGCCCAAGAACCTCCCCAGCCCAAGTCTGGGACGCTGGGTACGAATGCATC 2220  
DB 2726 ACGCTGAAGGCCCAAGAACCTCCCCAGCCCAAGTCTGGGACGCTGGGTACGAATGCATC 2785  
QY 2221 CTCACATTCAGGGCAGCAGCAGGAGTGGCCCGCCCTGCGCTTCAAAGCTTCCAGCGTA 2280  
DB 2786 CTCACATTCAGGGCAGCAGCAGGAGTGGCCCGCCCTGCGCTTCAAAGCTTCCAGCGTA 2845  
QY 2281 CAGTGCAGAACACCTCTTATTCCTATGAAGGGATGGAGATCAACAACTGCGCCGTGGAG 2340  
DB 2846 CAGTGCAGAACACCTCTTATTCCTATGAAGGGATGGAGATCAACAACTGCGCCGTGGAG 2905  
QY 2341 TTGACAGTGTGGTGAATGGGACATTCACATTTGACACCCAGCTCAGAAATGAATTCAC 2400  
DB 2906 TTGACAGTGTGGTGAATGGGACATTCACATTTGACACCCAGCTCAGAAATGAATTCAC 2965  
QY 2401 CTCACAAAGTGTGAGCCATGCTGAGAGCTGGGCTGTGCTCAAGGCTGACCCAGAC 2460  
DB 2966 CTCACAAAGTGTGAGCCATGCTGAGAGCTGGGCTGTGCTCAAGGCTGACCCAGAC 3025  
QY 2461 TTGCGATGTGGTGTGCCAGGCCCCAGGCCAGTGCACCTTGGCCAGCACTTGCCTTGC 2520  
DB 3026 TTGCGATGTGGTGTGCCAGGCCCCAGGCCAGTGCACCTTGGCCAGCACTTGCCTTGC 3085  
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DB 3146 ACAGAGATATCCCGGTGACAGCCCCCGGGAAGGGGGACCAAGGTCACTATCCGAGG 3205  
QY 2641 GAGAACTGGGCTGGAAATTCGCGACATCGCTCCCATGTCAAGGTTCCTGGCTGGAG 2700  
DB 3206 GAGAACTGGGCTGGAAATTCGCGACATCGCTCCCATGTCAAGGTTCCTGGCTGGAG 3265  
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DB 3266 TGCAGGCCCTTTAGTGGATGTTTACCTCCCTGCGAAGACAGATCGTGTGTGAGATGGGGAG 3325  
QY 2761 GCTAAGCCAGCAGCATGACAGCTTGTGGAGATCTGGTGGCTGTGTGCGCTGAA 2820  
DB 3326 GCTAAGCCAGCAGCATGACAGCTTGTGGAGATCTGGTGGCTGTGTGCGCTGAA 3385  
QY 2821 TTTCATGGCCCGGCTCCTCACAGCTCTATTACTTCATGACACTGACTCTCTCAGATCTGAAG 2880

DB 3386 TTTCATGGCCCGGCTCCTCACAGCTCTATTACTTCATGACACTGACTCTCTCAGATCTGAAG 3445  
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DB 3446 CCCAGCCGGGGCCCATGTCCGAGGGAGCCCAAGTGACCATCACAGGACCAACCTGAT 3505  
QY 2941 GCCCGAAGCAACGCTGTGTGTGATTTTGGAAAGCAGCCCTGTCTCTTCCACAGGCGATCT 3000  
DB 3506 GCCCGAAGCAACGCTGTGTGTGATTTTGGAAAGCAGCCCTGTCTCTTCCACAGGCGATCT 3565  
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QY 3421 AACCGGTGTTGAGGCTTTGGTCCCTCAGGAACTCTGAGCTCAAGCTGAGCAAGCCCC 3480  
DB 3986 AACCGGTGTTGAGGCTTTGGTCCCTCAGGAACTCTGAGCTCAAGCTGAGCAAGCCCC 4045  
QY 3481 ATCATCTTAAAGGGCAAGAACCTGTATCCCGCTGTGGCTGGGGGCAACGTTGAAGCTGAAC 3540  
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DB 4226 TACTCCCGGGGATGTTGTATCATTTGCCCGGACAGCCCGTCAAGCTGCCCCGATCGTC 4285  
QY 3721 AGCATCGAGTGGCTGGCGGCTCCTCATCATTTTTCATCGTGGCCGCTGTCTTATGCTAT 3780  
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DB 4406 CTGAGTCCCGGTGGGCTGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 4465  
QY 3901 CATGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 3960

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3961 ACCATCGGGTGTCTGTTCCAGCAATTAAGACCAACCTCTGCTCCGGGACCTTGAAGTTC 4020  
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4586 CCGGGTACCGGAGGAGCGTGTGGAGAAAGGCTTGAAGCTCTTCCGCCAGCTCATCAAC 4645  
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4706 CCGGACCGTGGCAACGCTGGCTCACTCATATGACCGTGTGAGTCCAGGCTAGCTTCTCCATG 4765  
4201 GCCACTGATGTCTGAAGAGCTGTGGCGGACCTCATTTGACAAAGAACCTTGAAGCAAG 4260  
4766 GCCACTGATGTCTGAAGAGCTGTGGCGGACCTCATTTGACAAAGAACCTTGAAGCAAG 4825  
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4886 TGGTTTACTTCTCTCTCTCAAGTTCCTCAAGAGTGTCTGGGAGGCGCTTCTTCTCC 4945  
4381 CTGTTCTGCCATCAAGCAGCAGATGGAGAGGCGCCCATTCACGCCATCAAGCGGAG 4440  
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4621 CTTTCTCCACCGGCGGCGGAGTGCAGATATGATCTGAGTGGCGGAGAGAGTGGG 4680  
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5246 GCAAGGATGATCTTGCAGGATGAAGACATCACCACCAAGATTGAGATGATTGGAAGCGA 5305  
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5426 TATGAAACATGATCCGGTACACGGGAGCGCCGAGACCTTCGCTCAAGGACCTCATG 5485  
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5486 ATCACTCTGACCTGGAGTGGAGTCAAGATGGGACCTTAGTGAAGAACCCAGGAC 5545  
4981 GGAGACCAAGAGGGGGGACCGGGGAGCAAGATGGTGTCTGAAATCTACCTGACCCGA 5040  
5546 GGAGACCAAGAGGGGGGACCGGGGAGCAAGATGGTGTCTGAAATCTACCTGACCCGA 5605

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5606 CTCCTGGSCACTAAGGCGACACTGACAGAGTTTCTGGATGACCTCTTTGAGACCATCTTC 5665  
5101 AGCAGCGCACACCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 5160  
5666 AGCAGCGCACACCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 5725  
5161 GATGAGCAGGCTGATAAACATGGCATTCATGACCGCAGCTCCGCCATACCTGGAAGAGC 5220  
5726 GATGAGCAGGCTGATAAACATGGCATTCATGACCGCAGCTCCGCCATACCTGGAAGAGC 5785  
5221 AATTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 5280  
5786 AATTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 5845  
5281 ATCCATAGAGAGCAGCATCAGAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 5340  
5846 ATCCATAGAGAGCAGCATCAGAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 5905  
5341 TCTTGTCTCCAGCTCAGAGCAGCGCTGCGGCAAGAGCTCGCCCTCCAAAGCTCTGTAT 5400  
5906 TCTTGTCTCCAGCTCAGAGCAGCGCTGCGGCAAGAGCTCGCCCTCCAAAGCTCTGTAT 5965  
5401 GCCAAGGACATCCCGAGCTACAAGATTGGGTGGAGAGGTATTACTCAGACATAGGGAAG 5460  
5966 GCCAAGGACATCCCGAGCTACAAGATTGGGTGGAGAGGTATTACTCAGACATAGGGAAG 6025  
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6026 ATGCAGGCGCATCAGCGACCAAGACATGAACGCATACCTGGCTGAGCAGTCCCGGATGCAC 6085  
5521 ATGAATGAGTTCAACACCATGAGTGCATCTCAGAGATCTTCTCTATGTTGGGCAATATAC 5580  
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5581 AGCGAGGAGATCTTGGAGCTCTGGACCAAGATGACAGTGTGGGAGAGCAAACTGGCC 5640  
6146 AGCGAGGAGATCTTGGAGCTCTGGACCAAGATGACAGTGTGGGAGAGCAAACTGGCC 6205  
5641 TACAACCTAGAACAAAGTCAATACCTCTATGAGCTTTAGACAGCTGA 5685  
6206 TACAACCTAGAACAAAGTCAATACCTCTATGAGCTTTAGACAGCTGA 6250

RESULT 3  
US-10-108-260A-802  
; Sequence 802, Application US/10108260A  
; Publication No. US20040005560A1  
; GENERAL INFORMATION:  
; APPLICANT: HELIX RESEARCH INSTITUTE  
; TITLE OF INVENTION: No. US20040005560A1el full length cDNA  
; FILE REFERENCE: H1-A0106  
; CURRENT APPLICATION NUMBER: US/10/108,260A  
; CURRENT FILING DATE: 2002-03-27  
; NUMBER OF SEQ ID NOS: 5458  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 802  
; LENGTH: 3666  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-108-260A-802  
Query Match 19.5%; Score 1108; DB 16; Length 3666;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1158; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
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DB 1 TGCACACAGCCCCGAGGTCCCGAGTAAAGATCTCAACTGTGACACCATCACTCAGGTCAA 60  
QY 4587 GGAGAGAGATTCTGGATGCTCATCTTCAAGAATGTGCTTGTCTCCACCGGCCCAAGCTGC 4646



Db 61 GGAGAAGATTCTGGATGCCATCTTCAAGAAATGTGCTGCCACCGGCCCAAGCTGC 120  
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Db 181 CATCACCAACCAAGATTGAGAAATGATTGGAGCGACTGAACACACTGGGCCACTACCAAGT 240  
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QY 4947 CAAGATGTGGCACCTAGTGAAGAACCAACAGCAGCAGACCAAGAGAGGGGGACCGGGG 5006  
Db 421 CAAGATGTGGCACCTAGTGAAGAACCAACAGCAGCAGACCAAGAGAGGGGGACCGGGG 480  
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QY 5067 GAAATTTGTGGATGACCTCTTTGAGACCATCTTCAGCAGCGCACACCGTGGCTCTGCCCT 5126  
Db 541 GAAATTTGTGGATGACCTCTTTGAGACCATCTTCAGCAGCGCACACCGTGGCTCTGCCCT 600  
QY 5127 GCCCTGGGCATCAAGTATCATGTTTGAATCTTCCTGATGAGAGAGGCTGATAACATGGAT 5186  
Db 601 GCCCTGGGCATCAAGTATCATGTTTGAATCTTCCTGATGAGAGAGGCTGATAACATGGAT 660  
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Db 661 TCATGACCGCAGCTCCGCTACCTGGAAGAGCAATTCCTGCCCTGAGTGTGGT 720  
QY 5247 CAACATGATCAAGAACCCGAGTTTGTGTTTGAATCTCAATGATGATGATGATGATGATGAT 5306  
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Db 781 CTGCTCTCTGTGGTGGCTCAGACCTTCTGATGATGATGATGATGATGATGATGATGATGAT 840  
QY 5367 GGGCAAGGACTCGCCCTCCAAACAGCTGTGATGCCAAGGACATCCCCAGCTACAAGAA 5426  
Db 841 GGGCAAGGACTCGCCCTCCAAACAGCTGTGATGCCAAGGACATCCCCAGCTACAAGAA 900  
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QY 5487 GAACGCATACCTGGCTGAGCAGTCCCGGATGCCATGATGATGATGATGATGATGATGATGATG 5546  
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QY 5547 ACTCTAGAGATCTTCTCTATGTTGGCAATACAGCGAGAGATCTTGGACCTCTGGA 5606  
Db 1021 ACTCTAGAGATCTTCTCTATGTTGGCAATACAGCGAGAGATCTTGGACCTCTGGA 1080  
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Db 1081 CCACGATGACAGTGTGGGAGCAGAACTGGGCTTACAACTAGAACTAGTATCAACCT 1140  
QY 5667 CATGAGCTTAGACAGCTGA 5685

Db 1141 CATGAGCTTAGACAGCTGA 1159  
RESULT 4  
US-10-245-752-91  
; Sequence 91, Application US/10245752  
; Publication No. US20030064473A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Baton, Dan  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Smith, Victoria  
; APPLICANT: Stephan, Jean-Phillippe  
; APPLICANT: Watanabe, Colin  
; APPLICANT: Wood, William  
; APPLICANT: Zhang, Zemin  
; APPLICANT: Fong, Sherman  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P3630R1C66  
; CURRENT APPLICATION NUMBER: US/10/245,752  
; CURRENT FILING DATE: 2002-09-16  
; PRIOR APPLICATION NUMBER: 10/197942  
; PRIOR FILING DATE: 2002-07-18  
; PRIOR APPLICATION NUMBER: 60/059114  
; PRIOR FILING DATE: 1997-09-17  
; PRIOR APPLICATION NUMBER: 60/063046  
; PRIOR FILING DATE: 1997-10-24  
; PRIOR APPLICATION NUMBER: 60/065027  
; PRIOR FILING DATE: 1997-11-10  
; PRIOR APPLICATION NUMBER: 60/079689  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/086478  
; PRIOR FILING DATE: 1998-05-22  
; PRIOR APPLICATION NUMBER: 60/087607  
; PRIOR FILING DATE: 1998-06-02  
; PRIOR APPLICATION NUMBER: 60/089801  
; PRIOR FILING DATE: 1998-06-18  
; PRIOR APPLICATION NUMBER: 60/090557  
; PRIOR FILING DATE: 1998-06-24  
; PRIOR APPLICATION NUMBER: 60/090689  
; PRIOR FILING DATE: 1998-06-25  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 116  
; SEQ ID NO 91  
; LENGTH: 2597  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-10-245-752-91  
Query Match 13.9%; Score 793; DB 13; Length 2597;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 793; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 1 CGAGTATTTCCCACTCTCCAGCCGGAACCTGACCAAGAACTCTGAGCGGATGGCAT 60  
QY 639 GTTCGGTACGCTCTTCCATGATGATTCGTGGCTCGATGATTAAGATCCCTTCGGACAC 698  
Db 61 GTTCGGTACGCTCTTCCATGATGATTCGTGGCTCGATGATTAAGATCCCTTCGGACAC 120  
QY 699 CTTACCATCATCCCTGACCTTTGATCTACTATGCTATGCTTTAGCAGTGGCACTT 758  
Db 121 CTTACCATCATCCCTGACCTTTGATCTACTATGCTATGCTTTAGCAGTGGCACTT 180  
QY 759 TGTCTACTTTTGGACCTCCAACTGAGATGGTGTCTCCACCGAGCTCCACCAAGGA 818  
Db 181 TGTCTACTTTTGGACCTCCAACTGAGATGGTGTCTCCACCGAGCTCCACCAAGGA 240



Db	181	TGCTACTATTTTGACCCCTCCAACTGAGATGGTGTCTCCACCAAGGCTCCACCACCAAGGA	240
Qy	819	GCAGGTGTATACATCAAGCTCGTGAAGCTTTTCCAAAGGAGGACACAGACCTTCAACTCCTA	878
Db	241	GCAGGTGTATACATCCAAAGCTCGTGAAGCTTTTGCAAAGGAGGACACAGACCTTCAACTCCTA	300
Qy	879	TGTAGAGGTGCCCATTTGGCTGTGAGCGCAGTGGGGTGGAGTACCGGCTGCTGCAGAGCTGC	938
Db	301	TGTAGAGGTGCCCATTTGGCTGTGAGCGCAGTGGGGTGGAGTACCGGCTGCTGCAGAGCTGC	360
Qy	939	CTACTGTCCAAAGCGGGGCGCTGCTTGGCAGGACCCTTGGAGTCCATCCAGATGATGA	998
Db	361	CTACTGTCCAAAGCGGGGCGCTGCTTGGCAGGACCCTTGGAGTCCATCCAGATGATGA	420
Qy	999	CCTGCTCTTCAACCGTCTTCTCCAAAGGCGCAGAGCGGAANTGAATCCCTGGATGAGTC	1058
Db	421	CCTGCTCTTCAACCGTCTTCTCCAAAGGCGCAGAGCGGAANTGAATCCCTGGATGAGTC	480
Qy	1059	GGCCCTGTGATCTTCACTCTTGAAGCAGATAAATGACCGCATTTAAGGAGCGGCTGCAGTC	1118
Db	481	GGCCCTGTGATCTTCACTCTTGAAGCAGATAAATGACCGCATTTAAGGAGCGGCTGCAGTC	540
Qy	1119	TTGTTTACGGGGCGAGGGACCGCTGAGCTGGCCCTGGCTCAAGGTGAGGACATCCGCTG	1178
Db	541	TTGTTTACGGGGCGAGGGACCGCTGAGCTGGCCCTGGCTCAAGGTGAGGACATCCGCTG	600
Qy	1179	CAGCAGTGCCTCTTTAACCATTGACGATAACTTCTGTGGCCTGGACATGAATGCTCCCT	1238
Db	601	CAGCAGTGCCTCTTTAACCATTGACGATAACTTCTGTGGCCTGGACATGAATGCTCCCT	660
Qy	1239	GGGAGTGTCCGACATGTTGTGGTGGAAATTCGCGTCTTCCAGGAGGACAGGACCGCATGAC	1298
Db	661	GGGAGTGTCCGACATGTTGTGGTGGAAATTCGCGTCTTCCAGGAGGACAGGACCGCATGAC	720
Qy	1299	GTCGTGCATCGCATATGCTCTACAGAAACCACTCTCTGGCCTTTGTGGGCAACAAAAGTGG	1358
Db	721	GTCGTGCATCGCATATGCTCTACAGAAACCACTCTCTGGCCTTTGTGGGCAACAAAAGTGG	780
Qy	1359	CAAGCTGAAGAAG	1371
Db	781	CAAGCTGAAGAAG	793

## RESULT 7

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US01-107-91
; Sequence 91, Application US/10245107
; Publication NO. US20030068779A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Eaton, Dan
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe
; APPLICANT: Watanabe, Colin
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; APPLICANT: Fong, Sherman
; TITLE OF INVENTION: SECRETED AND TRIMMED
; TITLE OF INVENTION: ACIDS ENCODING
; FILE REFERENCE: P3630R1C71
; CURRENT APPLICATION NUMBER: US/10/271942
; CURRENT FILING DATE: 2002-09-16
; PRIOR APPLICATION NUMBER: 10/197942
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/059114
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/063046
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/065027

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Qy 1359 CAAGCTGAGGAG 1371
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Db 781 CAAGCTGAGGAG 793

RESULT 6
US-10-245-103-91
; Sequence 91, Application US/10245103
; Publication No. US20030068778A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Bacon, Dan
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Philippe
; APPLICANT: Watanabe, Colin
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; APPLICANT: Fogg, Sherman
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3630R1C112
; CURRENT APPLICATION NUMBER: US/10/245.103
; CURRENT FILING DATE: 2002-09-17
; PRIOR APPLICATION NUMBER: 10/197942
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/059114
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/063046
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/065027
; PRIOR FILING DATE: 1997-11-10
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/086478
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090689
; PRIOR FILING DATE: 1998-06-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 116
; SEQ ID NO 91
; LENGTH: 2597
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-245-103-91

Query Match      13.9%; Score 793; DB 15; Length 2597;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 793; Conservative 0; Mismatches 0; Indels 0; Gaps 0

Qy 579 CGAGTATTTCACCACTCTCCAGCGGNAACTGACCAAGACTCTGAGCGGATGGCAT 638
Db 1 CGAGTATTTCACCACTCTCCAGCGGAACTGACCAAGAACTCTGAGCGGATGGCAT 60
Qy 639 GTTCGGTACGTCCTCCATGATGAGTTCGTGGCCTCGATGATTAAGATCCCTTCGGACAC 698
Db 61 GTTCGGTACGTCCTCCATGATGAGTTCGTGGCCTCGATGATTAAGATCCCTTCGGACAC 120
Qy 699 CTTACCATCATCCCTGACTTTGATCTACTATGTCATGCTATGCTTTAGCAGTGGCAACTT 758
Db 121 CTTACCATCATCCCTGACTTTGATCTACTATGTCATGCTATGCTTTAGCAGTGGCAACTT 180
Qy 759 TGCTACTTTTGGACCTCCACCTGAGATGTGTCTCCACCAGGCTCCACCACCAAGGA 818

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QY	1299	GTCTGTTCATCGCATATGCTTACAGGAACCACTCTCTGTGGCCTTTGTGGGCACCAAAAGTGG	1358
Db	721	GTCTGTTCATCGCATATGCTTACAGGAACCACTCTCTGTGGCCTTTGTGGGCACCAAAAGTGG	780
QY	1359	CAAGCTGAAGAAG	1371
Db	781	CAAGCTGAAGAAG	793
RESULT 8			
US-10-245-143-91			
; Sequence 91, Application US/10245143			
; Publication No. US20030068780A1			
; GENERAL INFORMATION:			
; APPLICANT: Baker, Kevin			
; APPLICANT: Eaton, Dan			
; APPLICANT: Filvarcoff, Ellen			
; APPLICANT: Goddard, Audrey			
; APPLICANT: Grimaldi, J. Christopher			
; APPLICANT: Gurney, Austin			
; APPLICANT: Smith, Victoria			
; APPLICANT: Stephan, Jean-Philippe			
; APPLICANT: Watanabe, Colin			
; APPLICANT: Wood, William			
; APPLICANT: Zhang, Zemin			
; APPLICANT: Fong, Sherman			
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC			
; TITLE OF INVENTION: ACIDS ENCODING THE SAME			
; FILE REFERENCE: P3630RIC90			
; CURRENT APPLICATION NUMBER: US/10/245,143			
; CURRENT FILING DATE: 2002-09-16			
; PRIOR APPLICATION NUMBER: 10/197942			
; PRIOR FILING DATE: 2002-07-18			
; PRIOR APPLICATION NUMBER: 60/059114			
; PRIOR FILING DATE: 1997-09-17			
; PRIOR APPLICATION NUMBER: 60/063046			
; PRIOR FILING DATE: 1997-10-24			
; PRIOR APPLICATION NUMBER: 60/065027			
; PRIOR FILING DATE: 1997-11-10			
; PRIOR APPLICATION NUMBER: 60/079689			
; PRIOR FILING DATE: 1998-03-27			
; PRIOR APPLICATION NUMBER: 60/086478			
; PRIOR FILING DATE: 1998-05-22			
; PRIOR APPLICATION NUMBER: 60/087607			
; PRIOR FILING DATE: 1998-06-02			
; PRIOR APPLICATION NUMBER: 60/089801			
; PRIOR FILING DATE: 1998-06-18			
; PRIOR APPLICATION NUMBER: 60/090557			
; PRIOR FILING DATE: 1998-06-24			
; PRIOR APPLICATION NUMBER: 60/090689			
; PRIOR FILING DATE: 1998-06-25			
; Remaining Prior Application data removed - See File Wrapper or PALM.			
; NUMBER OF SEQ ID NOS: 116			
; SEQ ID NO 91			
; LENGTH: 2597			
; TYPE: DNA			
; ORGANISM: Homo Sapien			
US-10-245-143-91			
Query Match 13.9%; Score 793; DB 15; Length 2597;			
Best Local Similarity 100.0%; Pred. No. 0;			
Matches 793; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
QY	579	CGAGTATTTTCCCAACCATCTCCAGCCGGAAACTGACCAAGAACTCTGAGCGGATGGCAT	638
Db	1	CGAGTATTTTCCCAACCATCTCCAGCCGGAAACTGACCAAGAACTCTGAGCGGATGGCAT	60
QY	639	GTTCCGGTACGTCTTCATGATGAGTTCTGTGGCCTCGATGATTAAGATCCCTTCGGACAC	698
Db	61	GTTCCGGTACGTCTTCATGATGAGTTCTGTGGCCTCGATGATTAAGATCCCTTCGGACAC	120
QY	699	CTTCACCATCATCCCTGACTTTGATATCTACTATGTCTATGTTTACAGTGGCAACTT	758

Db 121 CTTACCATCATCCCTGACTTGTATCTACTATGTCTATGGTTTACAGTGGCACTT 180  
QY 759 TGTCTACTTTTGGACCTCCAACTGAGATGTTCTCCACAGGCTCCACCAAGGA 818  
Db 181 TGTCTACTTTTGGACCTCCAACTGAGATGTTCTCCACAGGCTCCACCAAGGA 240  
QY 819 GCAGTGTATACATCAAGCTGTCAGGCTTGAAGGAGGACACAGCTTCAACTCTTA 878  
Db 241 GCAGTGTATACATCAAGCTGTCAGGCTTGAAGGAGGACACAGCTTCAACTCTTA 300  
QY 879 TGTAGAGTGGCCATTTGGCTGTAGCGAGTGGGTGGAGTACCGCTGTGCGAGGTGC 938  
Db 301 TGTAGAGTGGCCATTTGGCTGTAGCGAGTGGGTGGAGTACCGCTGTGCGAGGTGC 360  
QY 939 CTACCTGTCCAAAGCGGGCGCTGTTGGCAGGACCTTGGAGTCCATCCAGATGATGA 998  
Db 361 CTACCTGTCCAAAGCGGGCGCTGTTGGCAGGACCTTGGAGTCCATCCAGATGATGA 420  
QY 999 CTTGCTCTTCAACGCTCTTCTCCAAAGCGGCGAGGAGGAAATGAAATCCCTGGATGATC 1058  
Db 421 CTTGCTCTTCAACGCTCTTCTCCAAAGCGGCGAGGAGGAAATGAAATCCCTGGATGATC 480  
QY 1059 GGCCTGTGCATCTTCACTTGAAGCAGATTAATGACCGCATTAAGGAGCGCTGCAGTC 1118  
Db 481 GGCCTGTGCATCTTCACTTGAAGCAGATTAATGACCGCATTAAGGAGCGCTGCAGTC 540  
QY 1119 TTGTTACCGGGCGAGGCGACGCTGGACCTGGCTGGCTGAAGTGAAGGACATCCCTCG 1178  
Db 541 TTGTTACCGGGCGAGGCGACGCTGGACCTGGCTGGCTGAAGTGAAGGACATCCCTCG 600  
QY 1179 CAGCAGTGGCTCTTAAACATTCAGATAACTTCTGTGGCTGGACATGAATGCTCCCT 1238  
Db 601 CAGCAGTGGCTCTTAAACATTCAGATAACTTCTGTGGCTGGACATGAATGCTCCCT 660  
QY 1239 GGGAGTGTCCGACATGGTGGTGGAAATTCCTGTTTCCAGGAGGACAGGACCGCATGAC 1298  
Db 661 GGGAGTGTCCGACATGGTGGTGGAAATTCCTGTTTCCAGGAGGACAGGACCGCATGAC 720  
QY 1299 GTCTGTATCGCATATGTCTACAGAACCATCTCTGGCTTGTGGGACCAAAAGTGG 1358  
Db 721 GTCTGTATCGCATATGTCTACAGAACCATCTCTGGCTTGTGGGACCAAAAGTGG 780  
QY 1359 CAACTGGAAGAAG 1371  
Db 781 CAACTGGAAGAAG 793

## RESULT 9

US-10-245-771-91

Sequence 91, Application US/10245771

Publication No. US20030068781A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin

APPLICANT: Eaton, Dan

APPLICANT: Filvaroff, Ellen

APPLICANT: Goddard, Audrey

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin

APPLICANT: Smith, Victoria

APPLICANT: Stephan, Jean-Philippe

APPLICANT: Watambe, Colin

APPLICANT: Wood, William

APPLICANT: Zhang, Zemin

APPLICANT: Fong, Sherman

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

FILE OF INVENTION: ACIDS ENCODING THE SAME

FILE REFERENCE: P3630R1C98

CURRENT APPLICATION NUMBER: US/10/245, 771

CURRENT FILING DATE: 2002-09-16

PRIOR APPLICATION NUMBER: 10/197942

PRIOR FILING DATE: 2002-07-18

PRIOR APPLICATION NUMBER: 60/059114

PRIOR FILING DATE: 1997-09-17

PRIOR APPLICATION NUMBER: 60/063046  
PRIOR FILING DATE: 1997-10-24  
PRIOR APPLICATION NUMBER: 60/065027  
PRIOR FILING DATE: 1997-11-10  
PRIOR APPLICATION NUMBER: 60/079689  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/086478  
PRIOR FILING DATE: 1998-05-22  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/089801  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/090557  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090689  
PRIOR FILING DATE: 1998-06-25  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 116  
SEQ ID NO 91  
LENGTH: 2597  
TYPE: DNA  
ORGANISM: Homo Sapien  
US-10-245-771-91

Query Match 13.9%; Score 793; DB 15; Length 2597;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 793; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 579 CGAGTATTTTCCACCACTCTCCAGCGGAAACTGACCAAGAACTCTGAGCGGATGGCAT 638  
Db 1 CGAGTATTTTCCACCACTCTCCAGCGGAAACTGACCAAGAACTCTGAGCGGATGGCAT 60  
QY 639 GTTCGGGTAGCTTTCATGATGAGTGTGGCTCGATGATTAAGATCCCTTCGACAC 698  
Db 61 GTTCGGGTAGCTTTCATGATGAGTGTGGCTCGATGATTAAGATCCCTTCGACAC 120  
QY 699 CTTACCATCATCCCTGACTTTTATGATCTACTATGCTATGTTTGTAGCAGTGGCACTT 758  
Db 121 CTTACCATCATCCCTGACTTTTATGATCTACTATGCTATGTTTGTAGCAGTGGCACTT 180  
QY 759 TGTCTACTTTTGAACCTTCAACCTGAGATGTTCTCCACAGGCTCCACCAAGGA 818  
Db 181 TGTCTACTTTTGAACCTTCAACCTGAGATGTTCTCCACAGGCTCCACCAAGGA 240  
QY 819 GCAGGTGTATACATCCAAAGCTCGTAGGCTTTCAAAGGAGGACACAGCTTCAACTCCTA 878  
Db 241 GCAGGTGTATACATCCAAAGCTCGTAGGCTTTCAAAGGAGGACACAGCTTCAACTCCTA 300  
QY 879 TGTAGAGTGGCCATTTGGCTGTGAGCGCAGTGGGTGGAGTACCGCTGTGTCAGGCTGC 938  
Db 301 TGTAGAGTGGCCATTTGGCTGTGAGCGCAGTGGGTGGAGTACCGCTGTGTCAGGCTGC 360  
QY 939 CTACCTGTCCAAAGCGGGCGCTGTTGGCAGGACCTTGGAGTCCATCCAGATGATGA 998  
Db 361 CTACCTGTCCAAAGCGGGCGCTGTTGGCAGGACCTTGGAGTCCATCCAGATGATGA 420  
QY 999 CTTGCTCTTCAACCGTCTTCTCCAAAGGCGCAGAGCGGAAAAATGAAATCCCTGGATGATC 1058  
Db 421 CTTGCTCTTCAACCGTCTTCTCCAAAGGCGCAGAGCGGAAAAATGAAATCCCTGGATGATC 480  
QY 1059 GGCCTGTGCATCTTCACTTGAAGCAGATTAATGACCGCATTAAGGAGCGGCTGCAGTC 1118  
Db 481 GGCCTGTGCATCTTCACTTGAAGCAGATTAATGACCGCATTAAGGAGCGGCTGCAGTC 540  
QY 1119 TTGTTACCGGGCGAGGCGACGCTGGACCTGGCTGGCTCAAGTGAAGGACATCCCTCG 1178  
Db 541 TTGTTACCGGGCGAGGCGACGCTGGACCTGGCTGGCTCAAGTGAAGGACATCCCTCG 600  
QY 1179 CAGCAGTGGCTCTTAAACATTCAGATTAATGACCGCATTAAGGAGCGGCTGCAGTC 1238  
Db 601 CAGCAGTGGCTCTTAAACATTCAGATTAATGACCGCATTAAGGAGCGGCTGCAGTC 660  
QY 1239 GGGAGTGTCCGACATGGTGGTGGAAATTCCTGTTTCCAGGAGGACAGGACCGCATGAC 1298

Db 561 GGGAGTCCGACATGTTGGTGGATCCGTCCTCCAGGAGCAGGACCGCATGAC 720  
 Qy 1299 GTCTGTATCGCATATGTTACAGAAACCACTCTCTGGCCTTTGTGGCCACCAAAAGTGG 1358  
 Db 721 GTCTGTATCGCATATGTTACAGAAACCACTCTCTGGCCTTTGTGGCCACCAAAAGTGG 780  
 Qy 1359 CAGCTGAAGAAG 1371  
 Db 781 CAGCTGAAGAAG 793

RESULT 10  
 US-10-245-851-91  
 ; Sequence 91, Application US/10245851  
 ; Publication No. US20030068782A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin  
 ; APPLICANT: Eaton, Dan  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Stephan, Jean-Phillippe  
 ; APPLICANT: Watanabe, Colin  
 ; APPLICANT: Wood, William  
 ; APPLICANT: Zhang, Zemin  
 ; APPLICANT: Fong, Sherman  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
 ; FILE REFERENCE: P3630R1C93  
 ; CURRENT APPLICATION NUMBER: US/10/245,851  
 ; CURRENT FILING DATE: 2002-09-16  
 ; PRIOR APPLICATION NUMBER: 10/197942  
 ; PRIOR FILING DATE: 2002-07-18  
 ; PRIOR APPLICATION NUMBER: 60/059114  
 ; PRIOR FILING DATE: 1997-09-17  
 ; PRIOR APPLICATION NUMBER: 60/063046  
 ; PRIOR FILING DATE: 1997-10-24  
 ; PRIOR APPLICATION NUMBER: 60/065027  
 ; PRIOR FILING DATE: 1997-11-10  
 ; PRIOR APPLICATION NUMBER: 60/079689  
 ; PRIOR FILING DATE: 1998-03-27  
 ; PRIOR APPLICATION NUMBER: 60/086478  
 ; PRIOR FILING DATE: 1998-05-22  
 ; PRIOR APPLICATION NUMBER: 60/087607  
 ; PRIOR FILING DATE: 1998-06-02  
 ; PRIOR APPLICATION NUMBER: 60/089801  
 ; PRIOR FILING DATE: 1998-06-18  
 ; PRIOR APPLICATION NUMBER: 60/090557  
 ; PRIOR FILING DATE: 1998-06-24  
 ; PRIOR APPLICATION NUMBER: 60/090689  
 ; PRIOR FILING DATE: 1998-06-25  
 ; Remaining Prior Application data removed - See File Wrapper or PALM.  
 ; NUMBER OF SEQ ID NOS: 116  
 ; SEQ ID NO 91  
 ; LENGTH: 2597  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapien  
 US-10-245-851-91

Query Match 13.9%; Score 793; DB 15; Length 2597;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 793; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 579 CGAGTATTTCCGACCATCTCCAGCGGGAATGACCAAGAACTGAGGGGATGGCAT 638  
 Db 1 CGAGTATTTCCGACCATCTCCAGCGGGAATGACCAAGAACTGAGGGGATGGCAT 60  
 Qy 639 GTTCCGGTACGTTCTTCCATGATGATTCGTGGCCTCGATGATTAAGATCCCTTCGGAC 698  
 Db 61 GTTCCGGTACGTTCTTCCATGATGATTCGTGGCCTCGATGATTAAGATCCCTTCGGAC 120

Qy 699 CTTACCATCATCCCTGACTTTGATATCTATCTATCTATGTTTACAGTGGCACTT 758  
 Db 121 CTTACCATCATCCCTGACTTTGATATCTATCTATCTATGTTTACAGTGGCACTT 180  
 Qy 759 TGTCTACTTTTGGACCTTCCAACTGAGATGTTCTCCACAGGCTCCACCAAGGA 818  
 Db 181 TGTCTACTTTTGGACCTTCCAACTGAGATGTTCTCCACAGGCTCCACCAAGGA 240  
 Qy 819 GCAGGTATATACATCCAGCTCGTGAGGCTTTGCAAGGAGGACACAGCCTTCACTCCTA 878  
 Db 241 GCAGGTATATACATCCAGCTCGTGAGGCTTTGCAAGGAGGACACAGCCTTCACTCCTA 300  
 Qy 879 TGTAGAGTGGCCCATTTGGCTGTGAGCGAGTGGGTGGAGTACCGCTGTCTCAGGCTGC 938  
 Db 301 TGTAGAGTGGCCCATTTGGCTGTGAGCGAGTGGGTGGAGTACCGCTGTCTCAGGCTGC 360  
 Qy 939 CTACCTGTCCAAAGCGGGGCGGTGCTTGGCAGGACCTTGGAGTCCATCCAGATGATGA 998  
 Db 361 CTACCTGTCCAAAGCGGGGCGGTGCTTGGCAGGACCTTGGAGTCCATCCAGATGATGA 420  
 Qy 999 CTTGCTCTTTCACCGTCTTCTCCAAAGGCGCAGAAAGCGGAAATGAAATCCCTGGATGATGC 1058  
 Db 421 CTTGCTCTTTCACCGTCTTCTCCAAAGGCGCAGAAAGCGGAAATGAAATCCCTGGATGATGC 480  
 Qy 1059 GGCCCTGTGCATCTTTCATCTTGAAGCAGATTAATGACCGCATTAAGAGCGGCTGCAGTC 1118  
 Db 481 GGCCCTGTGCATCTTTCATCTTGAAGCAGATTAATGACCGCATTAAGAGCGGCTGCAGTC 540  
 Qy 1119 TTGTTACCGGGGCGGAGCAGCTGGACCTGGCCTGGCTCAAGGTGAAAGGACATCCCTCG 1178  
 Db 541 TTGTTACCGGGGCGGAGCAGCTGGACCTGGCCTGGCTCAAGGTGAAAGGACATCCCTCG 600  
 Qy 1179 CAGCAGTGGCTTTAAACATTGACGATTAACCTTGTGGCCTGGACATGAATGCTCCCT 1238  
 Db 601 CAGCAGTGGCTTTAAACATTGACGATTAACCTTGTGGCCTGGACATGAATGCTCCCT 660  
 Qy 1239 GGGAGTGTCCGACATGTTGGTGGAAATCCCGTCTTACGAGGAGCAGGAGCCGATGAC 1298  
 Db 661 GGGAGTGTCCGACATGTTGGTGGAAATCCCGTCTTACGAGGAGCAGGAGCCGATGAC 720  
 Qy 1299 GTCTGTATCGCATATGTTTACAGAAACCACTCTCTGGCCTTTGTGGGCAACCAAGTGG 1358  
 Db 721 GTCTGTATCGCATATGTTTACAGAAACCACTCTCTGGCCTTTGTGGGCAACCAAGTGG 780  
 Qy 1359 CAGCTGAAGAAG 1371  
 Db 781 CAGCTGAAGAAG 793

RESULT 11  
 US-10-245-883-91  
 ; Sequence 91, Application US/10245883  
 ; Publication No. US20030068783A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin  
 ; APPLICANT: Eaton, Dan  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Stephan, Jean-Phillippe  
 ; APPLICANT: Watanabe, Colin  
 ; APPLICANT: Wood, William  
 ; APPLICANT: Zhang, Zemin  
 ; APPLICANT: Fong, Sherman  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
 ; FILE REFERENCE: P3630R1C70  
 ; CURRENT APPLICATION NUMBER: US/10/245,883  
 ; CURRENT FILING DATE: 2002-09-16  
 ; PRIOR APPLICATION NUMBER: 10/197942

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; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/059114
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/063046
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/065027
; PRIOR FILING DATE: 1997-11-10
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/086478
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090689
; PRIOR FILING DATE: 1998-06-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; SEQ ID NO 91
; LENGTH: 2597
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-245-883-91

Query Match 13.9%; Score 793; DB 15; Length 2597;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 793; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 579 CGAGTATTTCCACCATCTCCAGCGGAACTGACCAAGAACTCTGAGCGGATGGCAT 638
DB 1 CGAGTATTTCCACCATCTCCAGCGGAACTGACCAAGAACTCTGAGCGGATGGCAT 60
QY 639 GTTCGGGTAGCTTTCCATGATGATGTCGTCGCTCGATTAAGATCCCTTCGACAC 698
DB 61 GTTCGGGTAGCTTTCCATGATGATGTCGTCGCTCGATTAAGATCCCTTCGACAC 120
QY 699 CTTACCATCATCCCTGACCTTGTATCTACTACTGCTAGTGTGTTAGCAGTGGCACTT 758
DB 121 CTTACCATCATCCCTGACCTTGTATCTACTACTGCTAGTGTGTTAGCAGTGGCACTT 180
QY 759 TGTCTACTTTTGAACCTCCAACTGAGATGGTGTCTCCACAGGCTCCACCAAGGA 818
DB 181 TGTCTACTTTTGAACCTCCAACTGAGATGGTGTCTCCACAGGCTCCACCAAGGA 240
QY 819 GCAGGTGTATACATCCAGCTCTGAGGCTTTCAGAGGAGCACAGCCTTCAACTCTTA 878
DB 241 GCAGGTGTATACATCCAGCTCTGAGGCTTTCAGAGGAGCACAGCCTTCAACTCTTA 300
QY 879 TGTAGAGTGCCCATTTGGCTGTGAGCGCAGTGGGGTGGAGTACCGCTGCTGCAGGCTGC 938
DB 301 TGTAGAGTGCCCATTTGGCTGTGAGCGCAGTGGGGTGGAGTACCGCTGCTGCAGGCTGC 360
QY 939 CTACTGTTCCTCAAGCGGGGGCGTGTGGCAGGACCTTGGAGTCCATCCAGATGATGA 998
DB 361 CTACTGTTCCTCAAGCGGGGGCGTGTGGCAGGACCTTGGAGTCCATCCAGATGATGA 420
QY 999 CCGTCTCTTCCAGGCTTCTCCAGGCGCAGAGCGAAATGAAATCCCTTGGATGATGC 1058
DB 421 CCGTCTCTTCCAGGCTTCTCCAGGCGCAGAGCGAAATGAAATCCCTTGGATGATGC 480
QY 1059 GGCCCTGTGCATCTTCATTTGAAGCGAGATTAATGACCGCATTAAGAGCGGCTGCGATGC 1118
DB 481 GGCCCTGTGCATCTTCATTTGAAGCGAGATTAATGACCGCATTAAGAGCGGCTGCGATGC 540
QY 1119 TTGTACCGGGGCGGAGGCGCTGGACCTGGCTCGCTCAAGTGAAGGACATCCCTCTG 1178
DB 541 TTGTACCGGGGCGGAGGCGCTGGACCTGGCTCGCTCAAGTGAAGGACATCCCTCTG 600
QY 1179 CAGCAGTGCCTTTTAAACATGACGATTAATCTGTGGCTTGGACATGAATGCTCCCT 1238

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DB 601 CAGCAGTGGCTCTTAACCATTTGACGATACTTCTGTGGCTGGACATGAATGCTCCCT 660
QY 1239 GGGAGTGTCCGACATGGTGGTGAATTCCTGCTTTCAGGAGGACAGGACCGCATGAC 1298
DB 661 GGGAGTGTCCGACATGGTGGTGAATTCCTGCTTTCAGGAGGACAGGACCGCATGAC 720
QY 1299 GTCTGTCTATCGCATATGCTTACAGAACCACTCTCTGGCTTTTGTGGCACCACAAAGTGG 1358
DB 721 GTCTGTCTATCGCATATGCTTACAGAACCACTCTCTGGCTTTTGTGGCACCACAAAGTGG 780
QY 1359 CAGCTGAAGAAG 1371
DB 781 CAGCTGAAGAAG 793

RESULT 12
US-10-237-535-91
; Sequence 91, Application US/10237535
; Publication No. US20030073188A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Eaton, Dan
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Smith, Victoria
; APPLICANT: Stephan, Jean-Phillippe
; APPLICANT: Watanabe, Colin
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; APPLICANT: Fong, Sherman
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3630R1C3
; CURRENT APPLICATION NUMBER: US/10/237,535
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: 10/197942
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/059114
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/063046
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/065027
; PRIOR FILING DATE: 1997-11-10
; PRIOR APPLICATION NUMBER: 60/079689
; PRIOR FILING DATE: 1998-03-27
; PRIOR APPLICATION NUMBER: 60/086478
; PRIOR FILING DATE: 1998-05-22
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090689
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/091358
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/099803
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/106932
; PRIOR FILING DATE: 1998-11-03
; PRIOR APPLICATION NUMBER: 60/115554
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/119342
; PRIOR FILING DATE: 1999-02-09
; PRIOR APPLICATION NUMBER: 60/123957
; PRIOR FILING DATE: 1999-03-12
; PRIOR APPLICATION NUMBER: 60/123972
; PRIOR FILING DATE: 1999-03-11

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; PRIOR APPLICATION NUMBER: 60/127372
; PRIOR FILING DATE: 1999-04-01
; PRIOR APPLICATION NUMBER: 60/131271
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/133459
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/135725
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; PRIOR FILING DATE: 2002-02-20
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; PRIOR FILING DATE: 2002-04-09

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Query Match

13.9%; Score 793; DB 15; Length 2597;



Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;  
Matches 793; Conservative 0;

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QY 639 GTTCGGTACGCTTCCCATGATGAGTTCGTGSCCTCGATGATTAGATCCCTTCGGACAC 698  
Db 61 GTTCGGTACGCTTCCCATGATGAGTTCGTGSCCTCGATGATTAGATCCCTTCGGACAC 120  
QY 699 CTTACCAATCATCCCTGACTTTGATATCTATCTATGCTATGCTTTAGAGTGGCAATT 758  
Db 121 CTTACCAATCATCCCTGACTTTGATATCTATCTATGCTATGCTTTAGAGTGGCAATT 180  
QY 759 TGTCTACTTTTGGACCTCCACCTGAGATGAGTTCCTCACCAGGCTCCACCAAGGA 818  
Db 181 TGTCTACTTTTGGACCTCCACCTGAGATGAGTTCCTCACCAGGCTCCACCAAGGA 240  
QY 819 GCAGGTGTATACATCAAGCTCGTGAGGCTTTGCAAGGAGGACACAGGCTTCAATCCTTA 878  
Db 241 GCAGGTGTATACATCAAGCTCGTGAGGCTTTGCAAGGAGGACACAGGCTTCAATCCTTA 300  
QY 879 TGTAGAGTGGCCATTTGGCTGTGAGCGGAGTGGGTGGATCCCGCTGCTGAGGCTGC 938  
Db 301 TGTAGAGTGGCCATTTGGCTGTGAGCGGAGTGGGTGGATCCCGCTGCTGAGGCTGC 360  
QY 939 CTACCTGTCCAAAGCGGGGCGCTGCTTGGCAGGACCTTTGGAGTCCATCCAGATGATGA 998  
Db 361 CTACCTGTCCAAAGCGGGGCGCTGCTTGGCAGGACCTTTGGAGTCCATCCAGATGATGA 420  
QY 999 CTTGCTCTTCAACGCTTCTTCCAAAGGCGGAGGAGGAAATGAAATCCTGGATGAGTC 1058  
Db 421 CTTGCTCTTCAACGCTTCTTCCAAAGGCGGAGGAGGAAATGAAATCCTGGATGAGTC 480  
QY 1059 GGCCTGTGATCTTCACTTTGAAGCAGATATGATGACCGCATTAAGGAGCGCTGCAGTC 1118  
Db 481 GGCCTGTGATCTTCACTTTGAAGCAGATATGATGACCGCATTAAGGAGCGCTGCAGTC 540  
QY 1119 TTGTTACCGGGCGGAGGACGCTGACCTGGCTGGCTCAAGGTGAAGGACATCCCTTG 1178  
Db 541 TTGTTACCGGGCGGAGGACGCTGACCTGGCTGGCTCAAGGTGAAGGACATCCCTTG 600  
QY 1179 CAGCAGTGGCTTTAAACATTCACGATTAACCTTCTGGCTGGATCAATGCTCCCT 1238  
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QY 1299 GTCTGTCATGCTATGCTTACAGACCACTCTCTGGCTTGTGGGACCAAGATGG 1358  
Db 721 GTCTGTCATGCTATGCTTACAGACCACTCTCTGGCTTGTGGGACCAAGATGG 780  
QY 1359 CAAGCTGAAGAAG 1371  
Db 781 CAAGCTGAAGAAG 793

RESULT 13

US-10-238-183-91  
; Sequence 91, Application US/10238183  
; Publication No. US20030073189A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Eaton, Dan  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Smith, Victoria  
; APPLICANT: Stephan, Jean-Philippe

; APPLICANT: Watanabe, Colin  
; APPLICANT: Wood, William  
; APPLICANT: Zhang, Zemin  
; APPLICANT: Fong, Sherman  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P36301C11  
; CURRENT APPLICATION NUMBER: US/10/238,183  
; CURRENT FILING DATE: 2002-09-09  
; PRIOR APPLICATION NUMBER: 10/197942  
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Matches 793; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy	639	GTTCGGTACGTCCTCCATGATGATTCGTGGCGCTCGATGATTAGATCCCTTCGGACAC	698
Db	61	GTTCGGTACGTCCTCCATGATGATTCGTGGCGCTCGATGATTAGATCCCTTCGGACAC	120
Qy	699	CTTCACCATCATCCCTGACTTTTGATATCTACTATGTCTATGGTTTATGACAGTGCACACTT	758
Db	121	CTTCACCATCATCCCTGACTTTTGATATCTACTATGTCTATGGTTTATGACAGTGCACACTT	180
Qy	759	TGCTACTTTTGGACCTCCACCTGATGATGCTGCTCCACAGGCTCCACCAAGGAC	818
Db	181	TGCTACTTTTGGACCTCCACCTGATGATGCTGCTCCACAGGCTCCACCAAGGAC	240
Qy	819	GCAGGTGTATACATCCAAAGCTCGTGAGGCTTTGCAAGAGGACACAGCCTTCAACTCCTA	878
Db	241	GCAGGTGTATACATCCAAAGCTCGTGAGGCTTTGCAAGAGGACACAGCCTTCAACTCCTA	300
Qy	879	TGTAGAGGTGCCATTGGCTGTCGAGCGAGTGGGTGGAGTACCGCTGCTGCGAGGCTGC	938
Db	301	TGTAGAGGTGCCATTGGCTGTCGAGCGAGTGGGTGGAGTACCGCTGCTGCGAGGCTGC	360
Qy	939	CTACCTGTCCAAAGCGGGGGCGTCTTGGCAGGACCCCTTGGAGTCCATCCAGATGATGA	998

Db 361 CTACGTGTCACAAAGCGGGGGCGTCTTGGCAGGACCTTGGAGTCCATCCAGATGATGA 420  
Qy 999 CTTGCTCTTCAACCTCTTCTCCAGGGCCAGAGCGGAATGAATCCCTGGATGATGC 1058  
Db 421 CTTGCTCTTCAACCTCTTCTCCAGGGCCAGAGCGGAATGAATCCCTGGATGATGC 480  
Qy 1059 GGCCTGTGTCATCTTCAATTTGAAGCAGATAAATGACCGCATTAAGAGCGGCTGCAGTC 1118  
Db 481 GGCCTGTGTCATCTTCAATTTGAAGCAGATAAATGACCGCATTAAGAGCGGCTGCAGTC 540  
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Db 541 TTGTTACCGGGCGAGGACCGCTGACCTGGCTGGCTTCAAGTGAAGGACATCCCTG 600  
Qy 1179 CAGCAGTGGCTCTTAAACCAATTGACGATAAATCTGTGGCTTGGACATGAATGCTCCCT 1238  
Db 601 CAGCAGTGGCTCTTAAACCAATTGACGATAAATCTGTGGCTTGGACATGAATGCTCCCT 660  
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Db 661 GGGAGTCCGACATGCTGGTGGGAATCCCTCTTACGGAGGACAGGACCGCATGAC 720  
Qy 1299 GTCTGTCAATCGATATGCTACAAGAACCACTCTCTGGCTTGTGGGACCAAAAGTGG 1358  
Db 721 GTCTGTCAATCGATATGCTACAAGAACCACTCTCTGGCTTGTGGGACCAAAAGTGG 780  
Qy 1359 CAAGCTGAAGAAG 1371  
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RESULT 14

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; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Eaton, Dan  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Smith, Victoria  
; APPLICANT: Stephan, Jean-Phillippe  
; APPLICANT: Watanabe, Colin  
; APPLICANT: Wood, William  
; APPLICANT: Zhang, Shemin  
; APPLICANT: Fong, Sherman  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
; FILE REFERENCE: P3630R1C15  
; CURRENT APPLICATION NUMBER: US/10/238,283  
; PRIOR FILING DATE: 2002-09-09  
; PRIOR APPLICATION NUMBER: 10/137942  
; PRIOR FILING DATE: 2002-07-18  
; PRIOR APPLICATION NUMBER: 60/059114  
; PRIOR FILING DATE: 1997-09-17  
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; PRIOR APPLICATION NUMBER: 60/090689

; PRIOR FILING DATE: 1998-06-25  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 116  
; SEQ ID NO 91  
; LENGTH: 2597  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-10-238-283-91  
Query Match 13.9%; Score 793; DB 15; Length 2597;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 793; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 579 CGAGTATTTTCCACCATCTCCAGCGGAACTGACCAAGAACTCTGAGCGGATGCGCAT 638  
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Qy 639 GTTCGGGTACGCTTCCATGATGAGTTCTGGCTCGATGATTAAGATCCCTTCGACAC 698  
Db 61 GTTCGGGTACGCTTCCATGATGAGTTCTGGCTCGATGATTAAGATCCCTTCGACAC 120  
Qy 699 CTTCCACCATCCCTGACCTTTGATATCTATGCTATGCTTTAGCAGTGGCACTT 758  
Db 121 CTTCCACCATCCCTGACCTTTGATATCTATGCTATGCTTTAGCAGTGGCACTT 180  
Qy 759 TGTCTACTTTTTCACCCCTCCCACTCGAGATGCTCTCCACAGGCTCCACCAAGGA 818  
Db 181 TGTCTACTTTTTCACCCCTCCCACTCGAGATGCTCTCCACAGGCTCCACCAAGGA 240  
Qy 819 GCAGGTGTATACATCCAAAGCTCTGAGCTCTCCAGAGGACGACACACCTTCACTCCTA 878  
Db 241 GCAGGTGTATACATCCAAAGCTCTGAGCTCTCCAGAGGACGACACACCTTCACTCCTA 300  
Qy 879 TGTAGAGTGCCTTGGCTGTGAGCGCAGTGGGTGGAGTACCGCTGTGCGAGGCTGC 938  
Db 301 TGTAGAGTGCCTTGGCTGTGAGCGCAGTGGGTGGAGTACCGCTGTGCGAGGCTGC 360  
Qy 939 CTACCTGTCCAAAGCGGGGCGCTGTGAGCGACCCCTTGGAGTCCATCCAGATGATGA 998  
Db 361 CTACCTGTCCAAAGCGGGGCGCTGTGAGCGACCCCTTGGAGTCCATCCAGATGATGA 420  
Qy 999 CTTGCTCTTCAACCTCTTCTCCAGAGGACGGAAGGAAATGAAATCCCTGGATGATGC 1058  
Db 421 CTTGCTCTTCAACCTCTTCTCCAGAGGACGGAAGGAAATGAAATCCCTGGATGATGC 480  
Qy 1059 GGCCTGTGTCATCTTCAATTTGAAGCAGATAAATGACCGCATTAAGAGCGGCTGCAGTC 1118  
Db 481 GGCCTGTGTCATCTTCAATTTGAAGCAGATAAATGACCGCATTAAGAGCGGCTGCAGTC 540  
Qy 1119 TTGTTACCGGGCGAGGACCGCTGACCTGGCTGGCTTCAAGTGAAGGACATCCCTG 1178  
Db 541 TTGTTACCGGGCGAGGACCGCTGACCTGGCTGGCTTCAAGTGAAGGACATCCCTG 600  
Qy 1179 CAGCAGTGGCTCTTAAACCAATTGACGATAAATCTGTGGCTTGGACATGAATGCTCCCT 1238  
Db 601 CAGCAGTGGCTCTTAAACCAATTGACGATAAATCTGTGGCTTGGACATGAATGCTCCCT 660  
Qy 1239 GGGAGTCCGACATGCTGGTGGGAATCCCTCTTACGGAGGACAGGACCGCATGAC 1298  
Db 661 GGGAGTCCGACATGCTGGTGGGAATCCCTCTTACGGAGGACAGGACCGCATGAC 720  
Qy 1299 GTCTGTCAATCGATATGCTACAAGAACCACTCTCTGGCTTGTGGGACCAAAAGTGG 1358  
Db 721 GTCTGTCAATCGATATGCTACAAGAACCACTCTCTGGCTTGTGGGACCAAAAGTGG 780  
Qy 1359 CAAGCTGAAGAAG 1371  
Db 781 CAAGCTGAAGAAG 793

RESULT 15

US-10-238-370-91  
; Sequence 91, Application US/10238370

Publication No. US20030073191A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin  
APPLICANT: Baton, Dan  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Goddard, Audrey  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin  
APPLICANT: Smith, Victoria  
APPLICANT: Stephan, Jean-Phillippe  
APPLICANT: Watanabe, Colin  
APPLICANT: Wood, William  
APPLICANT: Zhang, Zemin  
APPLICANT: Fong, Sherman  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
TITLE OF INVENTION: ACIDS ENCODING THE SAME  
FILE REFERENCE: P3630R1C10  
CURRENT APPLICATION NUMBER: US/10/238,370  
CURRENT FILING DATE: 2002-09-09  
PRIOR APPLICATION NUMBER: 10/197942  
PRIOR FILING DATE: 2002-07-18  
PRIOR APPLICATION NUMBER: 60/059114  
PRIOR FILING DATE: 1997-09-17  
PRIOR APPLICATION NUMBER: 60/063046  
PRIOR FILING DATE: 1997-10-24  
PRIOR APPLICATION NUMBER: 60/065027  
PRIOR FILING DATE: 1997-11-10  
PRIOR APPLICATION NUMBER: 60/079689  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/086478  
PRIOR FILING DATE: 1998-05-22  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/089801  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/090557  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090689  
PRIOR FILING DATE: 1998-06-25  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 116  
SEQ ID NO 91  
LENGTH: 2597  
TYPE: DNA  
ORGANISM: Homo Sapien  
US-10-238-370-91

Query Match 13.9%; Score 793; DB 15; Length 2597;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 793; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 579 CGAGTATTTTCCACCATCTCCAGCCGGAATCTGACCAAGAACTCTGAGCGGATGCGAT 638  
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QY 639 GTTCGGTACGTCTTCCATGATGAGTTCGTGGCCTCGATGATTAAGATCCCTTCGGACAC 698  
DB 61 GTTCGGTACGTCTTCCATGATGAGTTCGTGGCCTCGATGATTAAGATCCCTTCGGACAC 120  
QY 699 CTTCCACCATCATCCCTGACTTTGATATCTACTATGCTATGCTATGCTTTAGCAGTGGCACTT 758  
DB 121 CTTCCACCATCATCCCTGACTTTGATATCTACTATGCTATGCTATGCTTTAGCAGTGGCACTT 180  
QY 759 TGTCTACTTTTTCACCTCCACCTGAGTGTGTCCTCCACAGGCTCCACCCACCAAGGA 818  
DB 181 TGTCTACTTTTTCACCTCCACCTGAGTGTGTCCTCCACAGGCTCCACCCACCAAGGA 240  
QY 819 GCAGGTGTATACATCCAAAGCTCGTGAGGCTTTGCAAGGAGGACACAGGCTTCAACTCCTA 878  
DB 241 GCAGGTGTATACATCCAAAGCTCGTGAGGCTTTGCAAGGAGGACACAGGCTTCAACTCCTA 300  
QY 879 TGTAGAGGTGCCCATTTGGCTGTGAGCGGATGGGTGGAGTACCGGCTGCTGCAGGCTGC 938

Db 301 TGTAGAGGTGCCCATTTGGCTGTGAGCGGATGGGTGGAGTACCGCCTGCTGCAGGCTGC 360  
QY 939 CTACCTGTCCAAAGGGGGGGCGTCTGGCGAGGACCTTGGAGTCCATCCAGATGATGA 998  
Db 361 CTACCTGTCCAAAGGGGGGGCGTCTGGCGAGGACCTTGGAGTCCATCCAGATGATGA 420  
QY 999 CCTGCTCTTACCCGTCTTCTCCAAAGGGCCAGAGCGGAAATGAAATCCCTTGGATGATC 1058  
Db 421 CCTGCTCTTACCCGTCTTCTCCAAAGGGCCAGAGCGGAAATGAAATCCCTTGGATGATC 480  
QY 1059 GGCCCTGTGCATCTTTCATCTTGAAGCAGATAAATGACCGCATTAAAGGAGCGGCTGCACTC 1118  
Db 481 GGCCCTGTGCATCTTTCATCTTGAAGCAGATAAATGACCGCATTAAAGGAGCGGCTGCACTC 540  
QY 1119 TTGTTTACCGGGGCGAGGCGACGCTGGACCTGGCTTCAAGGTGAAGGACATCCCTCTG 1178  
Db 541 TTGTTTACCGGGGCGAGGCGACGCTGGACCTGGCTTCAAGGTGAAGGACATCCCTCTG 600  
QY 1179 CAGCAGTGGCTCTTAAACCATTTGACGATAAATCTTGTGGCCTGGACATGAATGCTCCCT 1238  
Db 601 CAGCAGTGGCTCTTAAACCATTTGACGATAAATCTTGTGGCCTGGACATGAATGCTCCCT 660  
QY 1239 GGGAGTGTCCGACATGGTGGGTAATTCGGTCTTCAAGGAGGACAGGACCGCATGAC 1298  
Db 661 GGGAGTGTCCGACATGGTGGGTAATTCGGTCTTCAAGGAGGACAGGACCGCATGAC 720  
QY 1299 GTCTGTCTATGCGATATGCTTACAGAAACACTCTCTGGCCTTTGTGGGCAACCAAGTGG 1358  
Db 721 GTCTGTCTATGCGATATGCTTACAGAAACACTCTCTGGCCTTTGTGGGCAACCAAGTGG 780  
QY 1359 CAAGCTGAAGAAG 1371  
Db 781 CAAGCTGAAGAAG 793

Search completed: May 23, 2004, 13:05:11  
Job time : 1470 secs



; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1998-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 169
; LENGTH: 2477
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-907-794A-169

Query Match 10.2%; Score 579.2; DB 4; Length 2477;
Best Local Similarity 67.1%; Pred. No. 1.4e-131;
Matches 837; Conservative 0; Mismatches 408; Indels 3; Gaps 1;

QY 151 TTCAATCACTGTGTGGATGAGGACAGGACACATTTACTTTGGGGCCCTCAATCGG 210
DB 976 TTCAACCACTTGACCGTCCACCAAGGACGGGGCGCTCTATGTGGGGSCCATCAACCGG 1035
QY 211 ATTACAAGCTCTCCAGCACTGGAAGTCTTGGTACCATGACGACAGGCGGACGAG 270
DB 1036 GTCTAAGCTGACAGCAACCTGACCATCCAGGTGGCTCATGAAGACAGGGCCAGAAG 1095
QY 271 GACAAACCCCAAGTGTATCCACACCCCGCATCGTCCAGACCTGCAATGAGCCCTGACCA 330
DB 1096 GACAAACAGTCTGTTTACCGCGCCCTCATCGTGCAGCCCTGCAGCGAAGTCTCACCC 1155
QY 331 ACCAAATAGTCAACAGATGCTCTCTCATAGACTACAAGAGAACAGGCTGATGCTGCT 390
DB 1156 ACCAAATAGTCAACAGTGTCTCATTTGACTCTGAGAACCGCTGCTGCGCTGCT 1215
QY 391 GGGAGCTGTACCAAGCATCTGCAAGCTGCTGAGGCTGAGGACCTCTTCAAGCTGGGG 450
DB 1216 GGGAGCTGTACCAAGGGGCTGCAAGCTGCTGCGCTGATGACCTCTTCACTGCTGG 1275
QY 451 GAGCCTTATCAAGAGGAGCACTATCTGTCAAGTGTCAAGAGCGGCTCAAGTCTTT 510
DB 1276 GAGCCATCCCAAGAGGAGCACTACCTGTCCAGTGTCAACAAAGACGGGCCACCATGT 1335
QY 511 GGAGTGTATGCTCTCTACACCAACCTGGATGACAAAGTGTTCATTGCCACGGCAGTGG 570
DB 1336 GGGTGTATGCTGCTGAGGTGAGGTGGAAGCTCTTCACTCGGACGGCTGAGAT 1395
QY 571 GGGAGCCCGAGTATTTTCCACCATCTCCAGCCGGAACCTGACCAAGAACTCTGAGGG 630
DB 1396 GGGAGCAGGATTAATCTCCGACCCCTGTCCAGCCGGAAGTGTCCCGGAGACCCCTG 1455
QY 631 GATGGCATGTTCCGTAAGTCTTCCATGATGAGTGTGCGCTCGCATGATTAAGTCCCT 690
DB 1456 TCAGCCATGCTGACATGATGATACAGCGATTTTGTCTCTCTCATCAAGATCCCT 1515
QY 691 TCGGACACCTTCACCAATCATCCCTGACTTTGATATCTATGCTCTATGCTTTTAGCAGT 750
DB 1516 TCAGACACCTTGCCCTGGCTCTCCCACTTTGACATCTTACATCTACGCTTTTGTAGT 1575
QY 751 GGCACCTTGTCTACTTTTGGACCTTCCACCTGAGA---TGTGTCTCCACAGGCTCC 807
DB 1576 GGGGGCTTGTCTACTTTCTCACTGTCCAGCCCGAGACCCCTGAGGGTGTGGCCATCAAC 1635

QY 808 ACCACCAAGGAGCAGGTGTATATCATCAAGCTGCTGAGGCTTTGCAAGGAGGACACAGCC 867
DB 1636 TCCGCTGGAGACCTCTTCTACACCTCAGCATCGTCCGGCTCTGCAAGGATGACCCCAAG 1695
QY 868 TTCAACTCTCTATAGAGTGCCCATTTGGCTGTGAGGCGAGTGGGTGGAGTACCGCTG 927
DB 1696 TTCAACTCTATACGTGCTCCCTTCCGGCTGACCCCGGCGGGTGGAAATACCGCTC 1755
QY 928 CTGAGGCTGCTACCTGTCTCAAAGCGGGGCGGTGCTTTGGCAGGACCCCTTGGAGTCCAT 987
DB 1756 CTGAGGCTGCTTACCTGTGGCCAAAGCTGCGGACTCATCTGGCCCCAGGCTCTCAATATCACC 1815
QY 988 CCAGATGATGACCTGCTCTTCAAGGCTTCTCCAGGCGCAGGAGCGGAATGAAATCC 1047
DB 1816 AGCAGGACGATGATCTCTTTTGGCATCTTCTCAAAGGCGGAGGAGCAGTATCAACCCCG 1875
QY 1048 CTGATGAGTCGGCCCTGTGTCATCTTCAAGCAGATATAATACCGCATTAAGGAG 1107
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QY 1108 CGGCTGAGTCTTGTACCGGGGCGAGGCGACCTGAGACTGCGCTGGCTTCAAGTGAAG 1167
DB 1936 CGCTGCACTCTGCTTACCAAGGCGAGGCAACCTGGAGCTCACTGGCTGTGGGGAAG 1995
QY 1168 GACATCCCTGCGACAGTGGCTCTTAAACCATGACGATAAATCTTGTGGCTTGGACATG 1227
DB 1996 GACCTCAGTGACGAGGCGCTGTCCCATCGATGATTAATCTTGTGACTGGACATC 2055
QY 1228 AATGCTCCCTGGAGTGTCCGACATGTCGTGGTAATTCCTGCTTTCAGGAGGACAGG 1287
DB 2056 AACCAAGCCCTGGAGGCTCAACTCCAGTGGAGGCGCTGACCCCTGTACACCAAGCAGG 2115
QY 1288 GACCGATGACCTGTGTCATCGCATATGCTCAAGAACACACTCTCTGGCTTTGTGGGC 1347
DB 2116 GACCGATGACCTGTGTCATCGCATATGCTCAAGAACACACTCTCTGGCTTTGTGGGC 2175
QY 1348 ACCAAAGTGGCAAGCTTGAAGAAGATCCGGTGGATGAGACCCAGGGGC 1395
DB 2176 ACTAAGAGTGGCAAGCTTGAAGAAGTGAAGAGTCTATGAGTTCAGATGC 2223

RESULT 2

US-09-905-125A-169
; Sequence 169, Application US/09905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gueney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kijav, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

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; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/905,125A
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 169
; LENGTH: 2477
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-905-125A-169

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Query Match      10.2%; Score 579.2; DB 4; Length 2477;
Best Local Similarity 67.1%; Pred. No. 1.4e-131;
Matches 837; Conservative 0; Mismatches 408; Indels 3; Gaps 1;

Qy 151 TTCAATCACCTGGTGGATGAGGACAGGACACATTTTACTTGGGGCGGTCAATCGG 210
Db 976 TTCAACCACTTGACCGTCCCAAGGAGCGGGCGGTCTATGTGGGGCCATCAACCGG 1035

Qy 211 ATTTACAAGCTCTCCAGCGACCTGAAGGTCTTGGTGAAGCATGAGACAGGCGGACGAG 270
Db 1036 GTCTATAAGCTGACAGGCAACCTGACCATCCAGGTGGCTATAAGACAGGCGCCAGAAG 1095

Qy 271 GACAAACCAAGTGTATCCACCGCCGATCGTCAGACCTCGATGAGCCCTGACCAACC 330
Db 1096 GACAAACCAAGTGTATCCACCGCCCTCATCGTGCAGCCCTGACGCAAGTCTCACCCCTC 1155

Qy 331 ACCAAATGTCAACAAAGATGCTCTCTATAGACTACAAGGAGAACAGGCTGATTCGCTGT 390
Db 1156 ACCAAATGTCAACAAAGTGTCTCATCTGACTACTGAGAACCGGCTCTGCGCTGT 1215

Qy 391 GGGAGCGTGTACAAAGGCATCTGCAAGCTGTGAGGCTGGAGGACCTTCAAGTGGGG 450
Db 1216 GGGAGCGTGTACAAAGGCTGTGCAAGCTGTGCGGCTGGATGACCTTTCATCCTGGTG 1275

Qy 451 GAGCCTTATCAATAAGAGGACACTATCTGTGAGGTGTCAACGAGAGGGGTCTGAGTCTTT 510
Db 1276 GAGCCATCCCAAGAGAGGAGCACTACCTGTCCAGTGTCAACAGACCGGACCATGTAC 1335

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Qy 511 GGAGTGATCGTCTCTACAGCAACCTCGATGACAGCTGTTTCATTGGCCACGGCAGTGGAT 570
Db 1336 GGGGTGATGTGGCGCTCTGAGGGTGAGATGGCAAGCTCTTCATCGGCACGGCTGTGGAT 1395

Qy 571 GGGAAAGCCCGAGTATTTTCCACCATCTCCAGCCGGAACCTGACCAAGAACTCTGAGGCG 630
Db 1396 GGGAAAGCAGGATTAATCTCCGACCTGTCCAGCCGGAAGCTGCCCGAGACCTCTGAGTCC 1455

Qy 631 GATGCAATGTTCCGCTAGTCTTCCATGATGAGTTCTGTGGCTCGATGATTAAAGATCCCT 690
Db 1456 TCAGCCATGCTCGACTATGAGCTACAGCGATTTTGTCTCTCTCTCATCAAGATCCCT 1515

Qy 691 TCGGACACCTTCCACCATCATCCCTGACTTTGATATCTACTATGTCTATGTTTATGAGT 750
Db 1516 TCAGACACCTTGGCCCTGGTCTCCCATCTTTCATCTCTACATCTACGGCTTTGTAGT 1575

Qy 751 GGCACCTTTGTCTACTTTTTCAGCCCTCAACCTGAGA---TGGTGTCTCCACCGGCTCC 807
Db 1576 GGGGCTTTGTCTACTTTTCTCACTGTCCAGCCCGAGACCTCTGAGGTGTGGCCTATCAAC 1635

Qy 808 ACCACCAAGGAGCAGGTGTATACATCCAAAGCTCTGAGGCTTTGCAAGGAGGACACAGCC 867
Db 1636 TCCGCTGGAGACCTCTTCTACACCTCAGCATCGTGGGCTCTGCAAGGATGACCCCAAG 1695

Qy 868 TTCAACTCTCTATGAGGTGCCATTTGGCTGTGAGCCAGTGGGTGGAGTACCGCTG 927
Db 1696 TTCCACTCATAGTGTCCCTTCCGCTTCCGCTGCAACCGGGCGGGGTGAATACCGCTC 1755

Qy 928 CTGCAAGGTGCTCTACTGTCCAAAGCGGGCGGCTGTGGCAGGACCTTGGAGTCCAT 987
Db 1756 CTGCAAGGTGCTTACTCTGCGCAAGCTTGGGACTCAGTGGCCAGGCTTCAATATCACC 1815

Qy 988 CCAGATGATGACCTCTCTTCAACCTCTTCCAAAGGCGCAGAGCGGAAATGAAATCC 1047
Db 1816 AGCCAGGAGCATGTACTCTTTGCCATCTTCTCCAAAGGCGCAGAGCATATCACCCCG 1875

Qy 1048 CTGGATGAGTGGCCCTGTGCTCTTCACTTTGAAGCAGATAAATGACCGCATTAAGGAG 1107
Db 1876 CCCGATGACTGTCCCTGTGTGCTTCCCTATCCGGGCCATCACTTGCAGATCAAGGAG 1935

Qy 1108 CGGCTGCAAGTCTTTGTTACCGGGCGAGGCGACGCTGAGCCTGGCTCGCTCAAGTGAAG 1167
Db 1936 CGCCTGCAGTCTCTGTACCCAGGGCGAGGCGAACCTGGAGCTCAACTGGCTGTCTGGGGAAG 1995

Qy 1168 GACATCCCTCGCAGCAGTGGCTCTTAACCATTTGACGATACTCTGTGGCTGGACATG 1227
Db 1996 GAGCTCCAGTGCACGAAGCGCTGTCCCATCGATGATTAATCTTGTGGACTGGACATC 2055

Qy 1228 AATGCTCCCTCGGAGTGTCCGACATGCTGGAATTCCTGTTTCAAGGAGGACAGG 1287
Db 2056 ACCAGCCCTCGGAGGCTCAACTCCAGTGGAGGCGCTGACCTGTACACACCGAGCAGG 2115

Qy 1288 GACCGATGAGTCTGTGATCGCATATGCTACAGAACCACTCTCTGSCCTTTGTGGGC 1347
Db 2116 GACCGATGAGTCTGTGCGCTTCCCTACGTTTACACGGCTACAGCGTGGTTTTGTGGGG 2175

Qy 1348 ACCAAAGTGGCAAGCTGAAGAGATCCGGGTGGATGGACCCAGGGG 1395
Db 2176 ACTAAGTGGCAAGCTGAAGAGTGAAGGTAAGAGTCTATGATTCAGATGC 2223

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RESULT 3
US-09-902-775A-169
; Sequence 169, Application US/09902775A
; Patent No. 6686451
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen

```



APPLICANT:	Fong, Sherman	Db	1036	GTCTATTAAGCTGACAGGCAACCTGACCATCCAGTGGCTCATTAAGACAGGCGCAGAGAG	1095
APPLICANT:	Gao, Wei-Qiang	Qy	271	GACAAACCCCAAGTGTATCCACACCCCGCATCTGTCAGACCTGCAATGAGCCCTTGACACCC	330
APPLICANT:	Gerber, Hanspeter	Db	1096	GACAAACAGTCTCGTTACCCGCGCCCTCATCTGTCAGCCCTGTCAGCGAGTGTCTACCCCTC	1155
APPLICANT:	Goddard, A.	Qy	331	ACCAACAATGTCAACAAGATGCTCCTCATAGACTTCAAGGAGAACAGGCTGATGCTCTGT	390
APPLICANT:	Godowski, Paul J.	Db	1156	ACCAACAATGTCAACAAGTCTCTCATATGACTACTCTGAGAACCGCTGCTGCGCTGT	1215
APPLICANT:	Grimaldi, Christopher J.	Qy	391	GGGAGCCTGTACCAAGGCATCTGCAAGCTCTGAGGCTGAGGAGACCTCTTTCAGCTGGG	450
APPLICANT:	Hillan, Kenneth, J.	Db	1216	GGGAGCCTGTACCAAGGCGGTCTGCAAGCTCTGCGGTGATGACCTCTTTCATCTCTGCT	1275
APPLICANT:	Guiney, Austin L.	Qy	451	GAGCCTTATCATTAAGAAGAGCACTATCTGTCAAGTGTCTCAACGAGAGCGCTCAGTCTTT	510
APPLICANT:	Klavin, Ivar J.	Db	1276	GAGCCTATCCCAAGAAGAGGAGCTACTCTGTCAGTGTCAACAAGACGCGCACCATGTAC	1335
APPLICANT:	Mather, Jennie P.	Qy	511	GGAGTGTGCTCTCTCCTCAGCAACCTCGATGAGCAAGCTGTTCATTTGCGCAGGAGTGGAT	570
APPLICANT:	Pan, James	Db	1336	GGGCTGATTTGCGCTCTGAGGCTGAGGATGCGAAGCTCTTCATCGCACCGCTGTGGAT	1395
APPLICANT:	Paoni, Nicholas F.	Qy	571	GGGAAGCCCGAGTATTTTCCACCATCTCCAGCGCGAACTGACCAAGAACTCTGAGGCG	630
APPLICANT:	Roy, Margaret Ann	Db	1396	GGGAAGCAGGATTTACTTCCGACCTCTCCAGCGCGAGCTGCCCGAGACCTCTGAGTCC	1455
APPLICANT:	Stewart, Timothy A.	Qy	631	GATGCGATGTTGCGCTTCCATGATGAGTTCGTGCGCTCGATGATTAAGATCCCT	690
APPLICANT:	Tumas, Daniel	Db	1456	TCAGCCATGCTCGACTATGAGCTACACAGCGATTTTGTCTCTCTCTCATCAAGATCCCT	1515
APPLICANT:	Williams, P. Mickey	Qy	691	TCGGACACCTTCAACCATCATCCCTGACTTTGATATCTACTATGTCATGATGTTTAGCAGT	750
APPLICANT:	Wood, William, I.	Db	1516	TCAGACACCTTGGCCCTGGTCTCCCACTTTGACANCTTTCATCATCTACGCTTTGCTAGT	1575
TITLE OF INVENTION:	Secreted and Transmembrane Polypeptides and Nucleic	Qy	751	GGCAACTTTGTCTACTTTTGGACCTCCAACTGAGA --- TGGTGTCTCCACAGGTCCT	807
FILE REFERENCE:	10466-14	Db	1576	GGGGCTTTTGTCTACTTTCTCACTGTCCAGCGCGAGACCTCGAGGCTGTGGCCATCAAC	1635
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PRIOR FILING DATE:	2001-07-10	Qy	868	TTCAACTCTCTATGTAGAGGTGCCCATTTGGCTGTGAGCGCAGTGGGGTGGAGTACCGCTG	927
PRIOR APPLICATION NUMBER:	US 60/143,048	Db	1696	TTCCACTCATACGTGTCCTTCCCTCTCGGCTGCACCCGCGGGGTGGAATACCGCTC	1755
PRIOR FILING DATE:	1999-07-07	Qy	928	CTGAGGCTGCTTACTCTGTCAAAAGCGGGCGCTGTGTCAGGAGACCTTGGAGTCCAT	987
PRIOR APPLICATION NUMBER:	US 60/145,698	Db	1756	CTGAGGCTGCTTACTCTGCGCAAGCCTGGGACTCACTGGCCCGAGGCTTCAATATCACC	1815
PRIOR FILING DATE:	1999-07-26	Qy	988	CCAGATGATGACCTGCTCTTCCACCGTCTTCTCCAGGGCCAGAGCGGAAATGAAATCC	1047
PRIOR APPLICATION NUMBER:	US 60/146,222	Db	1816	AGCCAGGACGATGTACTCTTTGCCATCTTCTCCAGGGCAGAGCAGTATCACCACCG	1875
PRIOR FILING DATE:	1999-07-28	Qy	1048	CTGATGATGTCGGCTCTGTGATCTTTCATCTTTGAAGCAGATTAATGACCGCATTAAGAG	1107
PRIOR APPLICATION NUMBER:	PCT/US99/20594	Db	1876	CCCGATGACTCTGCGCTCTGTGCTTCCCTATCCGCGCCATCAACTTTCAGATCAAGGAG	1935
PRIOR FILING DATE:	1999-09-08	Qy	1108	CGGCTGCACTCTGTTACCGGGGAGGCGACGCTGGACCTGGCTGGCTCAAGGTGAAG	1167
PRIOR APPLICATION NUMBER:	PCT/US99/20944	Db	1936	CGCTGCACTCTGCTTACAGGGGAGGCGACCTTGGAGCTCACTGGCTGCTGGGAG	1995
PRIOR FILING DATE:	1999-09-13	Qy	1168	GACATCCCTTCAGCAGTGCCTCTTAACCATTAACGATTAATCTTGTGGCTCGACATG	1227
PRIOR APPLICATION NUMBER:	PCT/US99/21090	Db	1996	GACGTCCAGTGCACGAAGCGCTGTCCCATCGATGATTAATCTTCTGTGACATCGACATC	2055
PRIOR FILING DATE:	1999-09-15	Qy	1228	RATGCTCCCTTGGGAGTGTCCGACATGCTGGTGGAAATTCCTCGCTTTCAGGAGGACAGG	1287
PRIOR APPLICATION NUMBER:	PCT/US99/21547	Db	2056	AACCAAGCCCTTGGGAGGCTCAACTCCAGTGGAGGCGCTGACCTCTGTACACCAAGCAGG	2115
PRIOR FILING DATE:	1999-09-15	Qy	1288	GACCCGATGAGCTGTGTCATGTCATATGTCATCAAGAACCACTCTCTGGCTTTGTGGC	1347

Query Match 10.28; Score 579.2; DB 4; Length 2477;  
Best Local Similarity 67.18; Pred. No. 1.4e-131;  
Matches 837; Conservative 0; Mismatches 408; Indels 3; Gaps 1;  
Qy 151 TTCAATCACTGGTGGATGAGACAGGACATTTCTTGGGGCGCTCAATCGG 210  
Db 976 TTCAACCACTTGACCGTCCACCAAGGACGCGGCGCTCTATGTGGGGCCATCAACCGG 1035  
Qy 211 ATTTACAAGCTCTCCAGGCACTTGAAGTCTTGTGACGATGAGACAGGCGCGGAGGAG 270



Db 2116 GACCGCATGACCTCTGTGGCTCTCAGTTTACACGGCTACAGCGTGTGTTTGTGGGG 2175

Qy 1348 ACCAAAGTGGCAAGCTGAAGAAGATCCGGTGGATGGACCCAGGGGC 1395

Db 2176 ACTAAGAGTGGCAAGCTGAAGAAGTAAAGAGTCTATGAGTTGAGATGC 2223

RESULT 4

US-09-023-655-603

; Sequence 603, Application US/09023655

; Patent No. 6607879

; GENERAL INFORMATION:

; APPLICANT: Cocks, Benjamin G.

; APPLICANT: Susan G. Stuart

; APPLICANT: Jeffrey J. Sellman

; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE

; TITLE OF INVENTION: EXPRESSION

; NUMBER OF SEQUENCES: 1508

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.

; STREET: 3174 PORTER DRIVE

; CITY: PALO ALTO

; STATE: CALIFORNIA

; COUNTRY: USA

; ZIP: 94304

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/023,655

; FILING DATE: HEREWITH

; CLASSIFICATION:

; PRIOR APPLICATION NUMBER:

; FILING DATE:

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Zeller, Karen J.

; REGISTRATION NUMBER: 37,071

; REFERENCE/DOCKET NUMBER: PA-0001 US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (650) 855-0555

; TELEFAX: (650) 845-4166

; INFORMATION FOR SEQ ID NO: 603:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 3458 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; IMMEDIATE SOURCE:

; LIBRARY: THYMNON04

; CLONE: 3191066

US-09-023-655-603

Query Match 5.0%; Score 284.2; DB 4; Length 3458;

Best Local Similarity 64.4%; Pred. No. 2e-59;

Matches 440; Conservative 0; Mismatches 237; Indels 6; Gaps 1;

Qy 5001 CCGGGGAGCAAGATGGTGTCTGAATCTACCTGACCCGACTCTCTGGCCACTAAGGGCAC 5060

Db 1658 CCATCCGAGAAGTGTCTCCGGAAATCTACCTGACCCGCTGCTCTCCACCAAGGGCAC 1717

Qy 5061 ACTGCGAGAAGTGTGTGGATGACCTCTTTGAGACCATCTTCAGCAGGCACACCGTGGCTC 5120

Db 1718 GTTGCGAGAAGTGTCTGGATGACCTGTTCAGGGCAATCTGAGTA-----TCCGTGAAGA 1771

Qy 5121 TGCCTGCCCCCTGGCCATCAAGTACATGTTTGACTTCTGGATGACGAGGCTGATAAACA 5180

Db 1772 CAAGCCCCCACTGGCTGTCAANNACTTTTCGACTTCTCGGANGANCAGCTGAGAGAG 1831

Qy 5181 TGGCATTTCATGACCCGACGCTCCGCCATACCTCGGAAGACAAATTGCTGCCCTCCCTGAGTT 5240

Db 1832 GGAATCTCCGACCCCGACACCTTACATCTGGAAGACCAACAGCTTCTCTCGGTT 1891

Qy 5241 TTGGGTCAACATGATCAAGAACCCCGAGTTGTGTGATCCATCCATAGAAACAGCATCAC 5300

Db 1892 CTGGGTGAACATCTCTGAAGAACCCCGAGTTGTGTGATCCATCCATAGAAACAGCATCAC 1951

Qy 5301 AGACGCTGCTCTCTGTGGTGGCTCAGACCTTTCATGGACTCTTCTCCACGTCAGAGCA 5360

Db 1952 CGACGCTGCTCTCTGTGGTGGCTCAGACCTTTCATGGACTCTTCTCCACGTCAGAGCA 2011

Qy 5361 CCGGCTGGGCAAGGACTCGCCCTCCAAAGCTGTGTATGCAAGGAGCATCCCGAGTCA 5420

Db 2012 GCAGCTGGGCAAGGATTGCGCAACCAAGCTCTCTACGCAAGGAGATTCTCTGAGTA 2071

Qy 5421 CAAGAATGGGTGGAGAGTATTACTCAGACATAGGAGATGCGAGCCATCAGCGACCA 5480

Db 2072 CCGAAGATCGTGCAGCGCTCTTACAAGCAGATCCAGGACATGACCGCTCAGCGAGCA 2131

Qy 5481 AGACATGAACGCATACCTGGCTGAGCAGTCCCGGATGCAATCAATGAGTTCAACACCAT 5540

Db 2132 AGAGATGAATGCCCATCTGCGCGAGGAGTCGAGGAAATACCAAGATGAGTTCAACACCAA 2191

Qy 5541 GAGTGCACTCTCAGAGATCTTCTCTATGTGGGCAATATACAGGAGAGATCTTTGGACC 5600

Db 2192 TGTGGCCATGCGCAGAGATTATAAGTACCGCAAGAGGTATCGGCCGACATCATGCCCGC 2251

Qy 5601 TCTGGACCAAGATGACCAAGTGTGGGAAAGCAGAACTGGCTTACAACTAGAACCAATCAT 5660

Db 2252 GCTGGAGGCCAACCCACGCGCGAGGACACACTGACGACACAAAGTTTGGCAGGTGGT 2311

Qy 5661 AACCTCATGAGCTTAGACAGCT 5683

Db 2312 GCCTTTGATGGAGGACAAACATCT 2334

RESULT 5

US-09-181-706-1

; Sequence 1, Application US/09181706

; Patent No. 6130068

; GENERAL INFORMATION:

; APPLICANT: Melanie K. Spriggs, Michael R. Comeau,

; APPLICANT: Robert F. DuBose, Richard S. Johnson

; TITLE OF INVENTION: VIRAL ENCODED SEMAPHORIN PROTEIN

; TITLE OF INVENTION: RECEPTOR DNA AND POLYPEPTIDES

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Janis C. Henry

; STREET: 51 University St.

; CITY: Seattle

; STATE: WA

; COUNTRY: US

; ZIP: 98101

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/181,706

; FILING DATE: October 28, 1998

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/958,598 (converted to a

; APPLICATION NUMBER: Provisional, see below)

; FILING DATE: October 28, 1997

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: --to be assigned-- (USN 08/958,598

; APPLICATION NUMBER: conversion to Provisional application)

; FILING DATE: October 26, 1998

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

NAME: Henry, Janis C  
 REGISTRATION NUMBER: 34,347  
 REFERENCE/DOCKET NUMBER: 2631-A  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (206)470-4189  
 TELEFAX: (206)233-0644  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 4707 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 1..4707  
 US-09-181-706-1

Query Match 3.5%; Score 201.2; DB 3; Length 4707;  
 Best Local Similarity 49.1%; Pred. No. 4.3e-39;  
 Matches 824; Conservative 0; Mismatches 728; Indels 126; Gaps 6;

3935 TTCCGTTCTCTGGACTATAGAACTTACACCATGCGGTGCTGTTCCTCATCCGACGC 4114  
 3038 TTCCCTTCCTTGACTACAACTTTTGTCTGAGAACTTTCTTCCCTGAGTCAGGTGGCT 3097  
 3995 ACCGTGTCCTCCGGACCTTGAGTCCGGGCTACCGGAGGAGCGGTGGGAGAGGCC 4054  
 3098 TCACCCACATCTTCACTGAAGATATGATTAACAGAGACGCCAACGAAAGATGAAGTC 3157  
 4055 TGAAGCTCTTGGCCAGCTCATCAACAAAGGTGTCTCTGCTGTCTTCTCATCCGACGC 4114  
 3158 TCACAGCTTTGGATGCCCTTAATCTGTAATAAAGCTTCTTGTACTGATCCACACCC 3217  
 4115 TTGAGTCCCGAGGTAGTTCTCCATGCGCGACCGTGGCAACGTGGCTCMTCTCATGTA 4174  
 3218 TTGAAAACGAGAGAACTTTCTGTGAAGACAGGTGTCTGTTTGGCTCTCTTCAACCA 3277  
 4175 CCGTGTCTGCAGAGCAAGCTGGAGTACCCACTGATGTCTGGAAGCAGCTGCTGGCCGACC 4234  
 3278 TTGCACTTGCAACCAAGCTGTCTACTGACAGCATCTTAGAGGTGCTGACCAAGGACT 3337  
 4235 TCATGTACAAGAACTCTGGAGAGCAAGAACACCCCTAAGCTGTCTCAGGAGACTGAGT 4294  
 3338 TGAT-----GGAACTGTAGTAACATGACGCGCAAACTCATGCTGAGACGACCGAGT 3391  
 4295 CAGTGGCTGGAAGATGTGACCAATTTGTTTACTTTCTCTCTCTACAGTTCTCTCAAGG 4354  
 3392 CCGTCTGCAAAAACCTCTCTCAAACTGGATGTCGCTGCTGCTTCTGGAATTTCTCGGG 3451  
 4355 AGTGTCTGGGGACCCCTCTTCTCCCTGTTCTGTGCAATCAAGCAGCAGATGGAGAGG 4414  
 3452 AGACTGTGGAGAGCCCTTCTATTGTGTGTGAGCACTCTGAAACAGAAAATTAACAAGG 3511  
 4415 GCCCATGTACCGCATCAGCGGCGAGCCGCTACTCTCTGAGGAGGACAGCTCATCC 4474  
 3512 GTCCCGTGGATGTATCACTTGTGAAGCCCTGTACACATTAATGAAGACTGGCTGTGT 3571  
 4475 GCCAGCAGATTGACTTACAAAACCCCTGGTCTTGTGAGCTGTGTGAGCCGCAAGATGCCAACA 4534  
 3572 GGCAGTCCCGAATTCAGTACTGTGGCATTAAACGCTGCTTTTGAAAAAATCCCGAAA 3631  
 4535 GC-----CCCGAGTCCAGTAAGATCCTCAACTGTGACACCATCA 4576  
 3632 ACGAGAGTGCAGATGTCTGTCCGAATATTTTCAGTCAATGTTCTCGACTGTGACACCAATTG 3691  
 4577 CTCAGGTCAAGGAGAGAAATTTCTGATGCGATCTTCAAGAAATGTGCCTTGTCTCCACCGGC 4636  
 3692 GCCAGCCAAAGAAAAGATTTTCCAGCATTTTAAAGCAAAATGGCTCTCTTATGGAC 3751  
 4637 CCAAAGCTGCAGATATGGATCTGGAGTGGCGACAGGAAGTGGGCAAGGATGATCTTGC 4696

## RESULT 6

US-09-458-791-1

; Sequence 1, Application US/09458791

; Patent No. 6174689

; GENERAL INFORMATION:

; APPLICANT: Spriggs, Melanie

; TITLE OF INVENTION: VIRAL ENCODED SEMAPHORIN PROTEIN

; RECEPTOR DNA AND POLYPEPTIDES

; NUMBER OF SEQUENCES: 10

Db 3752 TTCAGCTTAATGAATTTGCTTCTGAGCTTCAATGGCCACACGACGAAGAAGACTTCTGG 3811  
 Qy 4697 AGGATGAAGACATCACACCAAGATTGAGAAATGATTGGAAAGCAGCTGAACACACTGGCCC 4756  
 Db 3812 ACATCGACAGTCTCTCGTGATTCTTTGAAGATGGAATCACCAAGCTTAAACACCAATGGCC 3871  
 Qy 4757 ACTACCAAGTCCAGATGGTTCCGTGGTGGCAATTAGTGTCCAAGCAGGTGACAGCCTATA 4816  
 Db 3872 ACTATGAGATATCAATGGATCCACTATAAAGTCTTTAAGAGATAGCAAAATTTTACTT 3931  
 Qy 4817 ACGAGTGAACAACTCCACCGTCTCCAGGACCTCAGCAAGTAAATATGAAAAATGATCC 4876  
 Db 3932 CAGATGTGGAGTACTC-----GGATGACCACTGCCATTGTGATTTA----- 3972  
 Qy 4877 GGTACAGGGCAGCCCCGACAGCTCCGCTCACGGACACCTATGATCACTCTCTGACCTGG 4936  
 Db 3973 ----- 3972  
 Qy 4937 AGAGTGGAGTCAAGATGTGGCACCTAGTGAAGAACCAAGAGCAGCGAGACGAGAGAGG 4996  
 Db 3973 -----CCAGATTCCGAAGCATTCCAAGATGTGCAAGGAAAGAGAC-----ATC 4015  
 Qy 4997 GGGACCGGGGAGCAAGATGGTGTCTGAATCTTACCTGACCCGACTCTCTGGCCACTAAGG 5056  
 Db 4016 GAGGAAAGCACAAGTTCAAAAGTAAAGAAATGTATCTGCAAAAGCTCTGTGCAACGAGG 4075  
 Qy 5057 GCACACTGCAGAAATTTGTGGATGACCTCTTTGAGACCATCTTCAGCACCGGCACACCGTG 5116  
 Db 4076 TGGCAATTCATCTGTGCTTGAAAAAATTTTAGAAGCATTTTGAGTTTACCCCAACAGCA 4135  
 Qy 5117 GCTGTGCCCTGCCCTGCCATCAAGTACATGTTTGTGATCTTCTGGATGAGCGGCTGATA 5176  
 Db 4136 GAGCT-----CCATTTGCTATAAAATCTTTTGTGATCTTTTGGACCGCCAGGCTGAAA 4189  
 Qy 5177 AACATGGCATTCATGACCGCCAGCTCCGCCATCTGGAAGAGCAATTTGCTGCCCTCTGA 5236  
 Db 4190 ACATAAATAACACAGATCTGACGTCTGATATTTGGAATAACAAACAGACCTTCTCTTC 4249  
 Qy 5237 GGTGTTGGTCAACATGATCAAGAACCGGAGTTTGTGTTGATCTTCAATCAATGAAGACAGCA 5296  
 Db 4250 GCTTCTGGGTAACATCTCTGAAGAACCTCTAGTTTGTCTTTGACATTAAGAAAGACACCAC 4309  
 Qy 5297 TCACAGACGCTGCTCTCTGTGTGGCTCAGACCTTCATGCACTTCTGTCTCCAGCTCAG 5356  
 Db 4310 ATATAGAGGCTGTGTTGTCAGTATGCCCAGGCATTCATGATGATTTCTCTCAG 4369  
 Qy 5357 AGCACCGGCTGGGCAAGACTCGCCCTCCAAACAGCTCTGTATGCCAAGGACATCCCA 5416  
 Db 4370 AGCAGCAACTAGGGAAGGAAGCACCACTAATAAGCTTCTCTATGCCAAGGATATCCCAA 4429  
 Qy 5417 GCTACAAGAAATTTGGGTGGAGAGGTATTACTCAGACATAGGGAAGATGCCAGCATCAGCG 5476  
 Db 4430 CCTACAAGAAAGATTAATCTTATTAAGCAATCAGGATTTGGCTCATTTGTCAT 4489  
 Qy 5477 ACCAAGACATGAACCATACCTGCTGAGCAGTCCCGATGCCAGATGACATGAATGATTCAACA 5536  
 Db 4490 CCTCAGAAATGAAGAAATTTTAACTCAGGAATCTAAGAAACATGAAAAATGAATTAATG 4549  
 Qy 5537 CCATGAGTGCATCTCAGAGATCTTCTCTTGTGGCAATATACAGCAGGAGATCCT 5594  
 Db 4550 AAGAAAGTGGCCTTGACAGAAATTTACAAATCATCTGTAATATTTTGTATGAGATCT 4607

CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Janis C. Henry  
 STREET: SI University St.  
 CITY: Seattle  
 STATE: WA  
 COUNTRY: US  
 ZIP: 98101  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: MS-DOS/Windows 95  
 SOFTWARE: Word for Windows 95, 7.0a  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/458,791  
 FILING DATE: 10-Dec-1999  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 08/958,598  
 FILING DATE: 28-OCT-1997  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Henry, Janis C  
 REGISTRATION NUMBER: 34,347  
 REFERENCE/DOCKET NUMBER: 2631  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (206)470-4189  
 TELEFAX: (206)233-0644  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 4707 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 1..4707  
 SEQUENCE DESCRIPTION: SEQ ID NO: 1:

Query Match 3.5%; Score 201.2; DB 3; Length 4707;  
 Best Local Similarity 49.1%; Pred.No. 4.3e-39;  
 Matches 824; Conservative 0; Mismatches 728; Indels 126; Gaps 6;

QY	4355	AGTGTGCTGGGAGCCCTCTCTCCCTGTTCTGTGCCATCAAGCAGCAGATGAGAAGG	4414
Db	3452	AGACTGTCGGAGAGCCCTTATTTGCTGGTGACACTCTGAACAGAAAAATTACAAAGG	3511
QY	4415	GCCCATTTACCCCATCAAGGCGAGGCGCTACTCCTTTCAGGAGCAGCAAGCTCATCC	4474
Db	3512	GTCCCGTGGATGTAATCACTTGCAAAAGCCCTGTACACACTTAATGAAGACTGGCTGTGT	3571
QY	4475	GCACGAGATTGACTACAAAACCCCTGCTCTGAGCTGTGTGAGCCAGCAATGCCACA	4534
Db	3572	GGCAGGTTCCGGAAATTCAGTACTGTGGCATTAACAGCTGCTTTTGAATAAATCCCGGAAA	3631
QY	4535	GC-----CCCGAGGTCCCAAGTAAGATCCTCAACTGTGACACCATCA	4576
Db	3632	ACGAGAGTGCAGATGCTCTCGAATAATTCAGTCAATGTTCTCGACTGTGACACCATTTG	3691
QY	4577	CTCAGGTCAAGGAGAGATTCCTGGATGCCATCTTCAAGAAATGTCCTCCACCGGC	4636
Db	3692	GCGAGCCAAAGAAAGATTTTCCAGCATTTCTTAAGCAAAAATGGCTCTCTCTATGGAC	3751
QY	4637	CCAAAGTGCAGATATGGATCTGGAGTGGCGACAAAGGAAGTGGGCAAGGATGATTTGC	4696
Db	3752	TTTCAGCTTAATGAAATTTGCTCTTGGCTTCAATATGGGCAACGACAGAAAGAACTTCTGG	3811
QY	4697	AGGATGAAGACATCACCAAGATTGAGATGATTTGGAAGCTGATGGAAGCTGACACATGTC	4756
Db	3812	ACATCGACAGTTCTCTCGTGATTTTGAAGATGGAATCCCAAGCTTAACACCATTTGGCC	3871
QY	4757	ACTACCAAGTGCAGATGTTTCCGTGGCATTTAGTGTCCAAAGCAGGTGACACCTATA	4816
Db	3872	ACTATGAGATATCAAAATGATCACTATAAAGTCTTTAAGAGATAGCAAAATTTACTTT	3931
QY	4817	AGCAGTGAACACTCCACCGCTCTCCAGGACTCAGCAAGTAAATATATGAACATGATCC	4876
Db	3932	CAGATGTGGAGTACTC-----GGATGACCACTGCCATTTGATTTTA-----	3972
QY	4877	GGTACAGGGGAGCCCGACAGCCTCCGCTCACGGACACCTATGATCATCTCTGACCTGG	4936
Db	3973	-----	3972
QY	4937	AGAGTGGAGTCAAGATGTGGCAGCTAGTGAAGAACCCAGCAGCAGGAGGAGGAGG	4996
Db	3973	-----CCAGATTCGGAAGCATTCGAAGATGTGAAGGAAGAGAC-----ATC	4015
QY	4997	GGGACCGGGGAGCAAGATGTGTCTGAAATCTACCTGACCCGACTCTGTGCCACTAAGG	5056
Db	4016	GAGGGAAGCACAGTTTCAAAGTAAAGAAATGTATCTGACAAAGCTGTGTGCGACCAAGG	4075
QY	5057	GCACACTGCAGAGTTTCTGGATGACCTCTTTGAGACCATCTTCAGCAGCAGCACCGTG	5116
Db	4076	TGGCAATTCATTCGTGTCTGAAACCTTTTGAAGCATTTTGAAGCTTTGAGTTTCCCAACAGCA	4135
QY	5117	GCTCTGCCCTGCCCTGCCCATCAAGTACATGTTTGAATCTCTCGATGAGCAGCTGATA	5176
Db	4136	GAGCT-----CCATTTGCTATAAATACTTTTGTGCTTTTGGAGCGCCAGGCTGAAA	4189
QY	5177	AACATGGCATTCATCACCGCAGCTCCGCTACCTGGAAGAGCAATTTGCTGCCCTGA	5236
Db	4190	ACAAAAAATCAAGATCTGAGCTGTACATATTTGGAAACAAACAGCTTCTCTCTTC	4249
QY	5237	GGTTTGGTCAACATGATCAAGAACCCGAGTTTGTGTGATCATCATTAAGAACAGCA	5296
Db	4250	GCTTCTGGTAAACATCTCGAAGACCTCAGTTTGTCTTTGACATTAAGAAAGACACAC	4309
QY	5297	TCACAGACGCTGCTCTCTGTGTGGCTCAGACCTTCATGCACTCTTGTCTCCAGCTCAG	5356
Db	4310	ATAATAGACGCTGTTTGTCAAGTATGTCAGGCAATTCAGGATGATGATTTTCTCTCAG	4369
QY	5357	AGCACCGGTGGGCAAGGACTCGCCCTCCAAACAAGTGTCTGTATGCCAAGGACATCCCCA	5416
Db	4370	AGCAGCAACTAGGGAAGGAGCACCACATAATAAGCTTCTCTATGCCAAGGATATCCAA	4429
QY	5417	GCTACAGAAATTTGGGTGGAGAGGATTATTACTCAGACATAGGGAAGATCCAGCCATCAGG	5476

QY	3935	TTCCGTCTCTGGACTATAGAACTTACCATCGGGTGTGTCTCCAGGAAATGAAGACC	3994
Db	3038	TTCCCTTCTTGACTCAAAACATTTTGTCTCAGAACTTTCTTCTCGTCAAGTGGCT	3097
QY	3995	ACCTGTCTCCGGACCTTGAGTCCCGGCTACCGCAGGAGCGTGTGGGAAGGCC	4054
Db	3098	TCACCCACATCTTCACTGAAGATATGCATTAACAGAGCCCAACAGAAATGAAGTC	3157
QY	4055	TGAAGCTTTTCCCGCAGCTCATCAACAAACAGAGTGTCTGTCTTCTATCCGACGC	4114
Db	3158	TCACAGCTTTGGATGCTTAACTGTATATAAAGCTTTCTTGTACTGTCTATCCACACC	3217
QY	4115	TTGAGTCCAGCGTACTTCTCATCGCGCGGTGGCAAGTGGCTCTCATCATGA	4174
Db	3218	TTGAAAGCAAGAAACTTTTCTGTAAGCAGAGTGTGTGTGCTCTCTTCTTAAACA	3277
QY	4175	CCGTGTGACAGCAAGCTGGAGTACGCCACTGATGTGTGTAAGCAGCTGTGCGCGACC	4234
Db	3278	TTGCACTGCAACCAAGCTGGTCTACCTGACCAGCATCTTAGAGGTGTGACCGAGACT	3337
QY	4235	TCATTGACAGAACCTGGAGCAAGAACCCCTTAAGTGTGCTCAGGAGGACTGAGT	4294
Db	3338	TGAT-----GGAAAGTGTATGATCATGACCCGAAATCATGCTGAGACGCGAGGT	3391
QY	4295	CAGTGTGAGAAAGTGTGACCAATTTGGTTTACTTTCTCTCTTACAAAGTTCTCTCAAGG	4354
Db	3392	CCGTGCTGCAAAAAACCTCTCAAAACTGGATGTCCGTCTGCTCTTCTGATTTCTCCGGG	3451

US-09-458-791-1

Db 4430 CCTACAAAGAGNAGTAAATCTTATTAAAGCAATCAGGATTTGGCTCCTCATGTGAT 4489  
Qy 5477 ACCAAGACATGAACGATCCTGGCTGGAGAGTCCCGGATGACATGAATGATGATCAACA 5536  
Db 4490 CCTCAGAAATGGAAGAAATTTTAACTCAGGAATCTAAGAAACATGAATGAATTAATG 4549  
Qy 5537 CCATGAGTGCATCTCAGAGATCTCTCTATGTTGGGCAAAATACAGCGAGGAGATCCT 5594  
Db 4550 AAGAAGTGGCTTGACAGAAATTTACAATACATCGTAATAATATTTTGTGAGATCT 4607

RESULT 7

US-09-459-066-1  
; Sequence 1, Application US/09459066  
; Patent No. 6187909  
; GENERAL INFORMATION:  
; APPLICANT: Spriggs, Melanie  
; TITLE OF INVENTION: VIRAL ENCODED SEMAPHORIN PROTEIN  
; TITLE OF INVENTION: RECEPTOR DNA AND POLYPEPTIDES  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Janis C. Henry  
; STREET: 51 University St.  
; CITY: Seattle  
; STATE: WA  
; COUNTRY: US  
; ZIP: 98101  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: MS-DOS/Windows 95  
; SOFTWARE: Word for Windows 95, 7.0a  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/459,066  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/958,598  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Henry, Janis C  
; REGISTRATION NUMBER: 34,347  
; REFERENCE/DOCKET NUMBER: 2631  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206)470-4189  
; TELEFAX: (206)233-0644  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4707 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: CDNA  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1..4707  
US-09-459-066-1

Query Match 3.5%; Score 201.2; DB 3; Length 4707;  
Best Local Similarity 49.1%; Pred. No. 4.3e-39;  
Matches 824; Conservative 0; Mismatches 728; Indels 126; Gaps 6;  
Qy 3935 TTCCGTTTCTGGACTATAGAACTTACACCATGCGGTGCTGTTCCAGGAATGAAGACC 3994  
Db 3038 TTCCCTTCCTTGATACAAATTTTCTCTGAGAACTTTCTTCCCTGAGTCAGGTGGCT 3097  
Qy 3995 ACCGTGCTCCGGGACCTTGAAGTCCGGGCTACCGGACGAGGACGCTGTGGAGAAAGGCC 4054  
Db 3098 TCACCCACATCTTCACTGAAGATATGCATACAGACGCGCACGACAGAAATGAAGTC 3157

Qy 4055 TGAAGCTCTTTCGCCAGCTCATCAAAACAAGGTGTTCTGTGCTCTTTCATCCGACGC 4114  
Db TCACAGCTTTGGATGCCCTAATCTGTAAATAAAGCTTTCTTGTACTGTCTATCCACACC 3217  
Qy 4115 TTGAGTCCCAAGGTAGTCTTCCATGCGCGACCGTGGCAACGTTGCTCTACTCATCATGA 4174  
Db TTGAAAAGCAGAGAACTTTCTGTGAAGACAGGTGTCTGTGTGCTCTCTTCTTAACCA 3277  
Qy 4175 CCGTGTCTGACAGAGCAAGCTGAGTACGCCACTGATGTGCTGAAAGACAGCTGCTGGCCGACC 4234  
Db TTGACCTGCAACCAAGCTGGTCTACCTGACACGATCCTAGAGGTGCTGACCGGAGCT 3337  
Qy 4235 TCATTGACAAACCTGGAGAGCAAGAACCAACCTTAAGCTGTGCTGCTCAGAGAGCTAGT 4294  
Db TGAT-----GGAACAGTGTAGTAACATGACGCGCAAACTCATGCTGAGACGACGCGAGT 3391  
Qy 4295 CAGTGGCTGAGAAGATCTGACCAATGTTTACTTTCTCTCTCTCTCAAGTCTCTCAAG 4354  
Db CCGTGTGCAAAACTCTCAAACTGGATGTCGGTCTGCTCTCTGATTTCTCGGG 3451  
Qy 4355 AGTGTGTGGGAGCCCTCTTCTCTGTTCTGTGCTCATCAAGCAGCAGATGAGAGG 4414  
Db AGACTGTGCGAGAGCCCTTCTATTGCTGTGCTGACGACTCTGAACCAAGAAATTAACAAG 3511  
Qy 4415 GCCCATTTGAGCCCATCAGCGGCGAGCCGCTACTCTTTGAGCGAGCAAGCTCATCC 4474  
Db GTCCCGTGGATGTAATCACTTGAAGCCCTGTACACACTTAATGAGACTGCTGTGTGT 3571  
Qy 4475 GCCAGCAGATTGACTACAAAACCTGTCTGAGCTGTGTGAGCCAGACAAATGCCAAC 4534  
Db GGCAGGTTCCGGAATTCAGTACTGTGGCAATTAACAGTCTGCTTTTGAATAAATCCCGAAA 3631  
Qy 4535 GC-----CCGAGGTCCAGTAAAGATCCTCAACTGTGACACCATCA 4576  
Db ACAGAGTGCAGATGTCTGTGCGAATATTTCAAGTCTTCAAGCAAAATGCGCTCTCTTATG 3631  
Qy 4577 CTCAGGTCAAGGAGAAGATCTGATGCCATCTTCAAGAAATGTCCTTGTCCACCGCC 4636  
Db GCCAAGCCAAAGAAAGATTTTCAAGCATTTTAAAGCAAAATGCGCTCTCTTATG 3751  
Qy 4637 CCAAGCTGCAGATATGATCTGAGTGGCGAAGAGTGGGGCAGGATGATCTTGC 4696  
Db TTCAGCTTAATGAAATTTGCTTGAAGTCAAAATGCGGCAACGACAGAAAGAACTTCTGG 3811  
Qy 4697 AGGATGAAGACATCACCAACCAAGATTTGAGATGATGAAAGCTCTTAAAGATAGCAAAATTTTACTT 3931  
Db ACATCGACAGTTCTCTCGTGATTTTGAAGATGAATCACCAGCTAAACACCATTTGCC 3871  
Qy 4757 ACTACAGGTGCAGATGTTCCGTGGTGGCATTTAGTGTCCAGCAGGTGACAGCTATA 4816  
Db ACTATGAGATATCAATGGATCCACTATAAAGTCTTTAAGAGATAGCAAAATTTTACTT 3931  
Qy 4817 ACGCAGTGAACAACCTCCACCGCTCTCCAGGACCTCAGCAAGTAAATATGAAAAACATGATCC 4876  
Db CAGATGTGGAGTACTC-----GGATGACCACTGCCATTTGATTTTA----- 3972  
Qy 4877 GGTACACGGGAGCCCCGACAGCTCCGCTCAGGACACCTATGATCACTCTCTGACCTGG 4936  
Db ----- 3973  
Qy 4937 AGAGTGGAGTCAAGATGTGGCACCCTAGTGAAGAACCAAGCAGACGAGACCAAGAGGAGG 4996  
Db -----CCAGATTCGGAGCATTCAGAGATGTGCAAGGAAGAGAC-----ATC 4015  
Qy 4997 GGGACCGGGGAGCAGATGTTGTGAATCTTACTGACCCGACTCTCTGGCCACTAAGG 5056  
Db GAGGGAAGCACAAGTTCAAGTAAAGAAATGTATCTGACAAAGTGTCTGTGCGACCAAG 4075  
Qy 5057 GCACACTCAGAAAGTTTGTGATGACCTTTTGAAGACCATCTTCAGACGCGCACACCGCTG 5116  
Db TGGCAATTCATCTGTGCTGTGAAAACTTTTGAAGCATTTTGAAGTTTACCAACAGCA 4135  
Qy 5117 GCTCTGCCCTGCCCTGSCCATCAAGTACATGTTTGACTTCTCTGATGAGCAGGCTGATA 5176

Db 4136 GAGCT-----CCATTTGCTATAAAATACATTTTGTGACGCGCCAGCTGAAA 4189  
Qy 5177 AACATGGCATTCATGACCGCACCTCGCGCATACCTGGAAGAGCAATGCTGCTGCTGCA 5236  
Db 4190 AAAAAAATCAGAGATCCTGACGCTGCTACATATTTGGAAGCAAAACAGCTTCTCTTC 4249  
Qy 5237 GGTCTTGGGTCAACATGATCAAGAACCGGCAAGTTTGTGTTGATCATCCATAAGAACGCA 5296  
Db 4250 GCTTCTGGGTAAACATCTGAGAACCTCAGTTTGTCTTTGACATTAAGAACACACCAC 4309  
Qy 5297 TCACAGAGCGCTGCTCTCTGTGTGGTCTCAGACTTCATGACTCTTGTCTCCACGTCAG 5356  
Db 4310 ATATAGACCGCTGTTTGTCACTGATGTCACAGGATTCATGATGCAATTTCTCTCAG 4369  
Qy 5357 AGCACCGCTGGGCAAGACTTCGCGCTCCAAACAGCTGCTGTATGCAAGACATCCCA 5416  
Db 4370 AGCAGCACTAGGGAAGGAGCAACCACTAATAAGCTTCTCTATGCAAGGATATCCCA 4429  
Qy 5417 GCTCAAGAATGGGTGAGAGGATTAATCTCAGACATAGGGAAGATGCCAGCCATCAGC 5476  
Db 4430 CCTCAAGAGAGATGAATCTTATTAAGAGCATCAGGATTTGCTCCATTTGCTAT 4489  
Qy 5477 ACCAGACATGAACATACCTGCTGAGCAGTCCCGGATCCACATGAATGAGTTCAACA 5536  
Db 4490 CTTCAAGAAATGAAGAAATTTTAACTCAGGAATCTAAGAAACATGMAAATGAATTAATG 4549  
Qy 5537 CCATGAGTGCATCTCAGAGATCTCTCTATGTTGGGCAATACAGCGAGAGATCCT 5594  
Db 4550 AAGAGTGGCTTGACAGAAATTTACAAATACATCGTAAATATTTTGTATGAGATTCT 4607

RESULT 8

US-09-459-065-1  
; Sequence 1, Application US/09459065  
; Patent No. 6562949  
; GENERAL INFORMATION:  
; APPLICANT: Spriggs, Melanie  
; TITLE OF INVENTION: VIRAL ENCODED SEMAPHORIN PROTEIN  
; TITLE OF INVENTION: RECEPTOR DNA AND POLYPEPTIDES  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Janis C. Henry  
; STREET: 51 University St.  
; CITY: Seattle  
; STATE: WA  
; COUNTRY: US  
; ZIP: 98101  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: MS-DOS/Windows 95  
; SOFTWARE: Word for Windows 95, 7.0a  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/459,065  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/958,598  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Henry, Janis C  
; REGISTRATION NUMBER: 34,347  
; REFERENCE/DOCKET NUMBER: 2631  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206)470-4189  
; TELEFAX: (206)233-0644  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4707 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear

; MOLECULE TYPE: cDNA  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1..4707  
US-09-459-065-1

Query Match 3.5%; Score 201.2; DB 4; Length 4707;  
Best Local Similarity 49.1%; Pred. No. 4.3e-39;  
Matches 824; Conservative 0; Mismatches 728; Indels 126; Gaps 6;

Qy 3935 TTCCGTTCTCTGGACTATAGAACTTACACCATCGGGTGTCTTCCAGGAAATGAAGACC 3994  
Db 3038 TTCCCTTCTTCTGACTACAAACATTTTGTCTCAGAACTTTCTTCTCCTGAGTCAGGTGGCT 3097  
Qy 3995 ACCTGTCTCTCGGAGACCTTGTAGGTCCCGGGTACCGGAGAGCGGTGTGGAGAAAGGCC 4054  
Db 3098 TCACCACATCTTCTCACTGAAGATATGCAATACAGAGAGCCCAACAGAGATGAAGATC 3157  
Qy 4055 TGAAGCTCTTTCGCCAGCTCATCAACCAAGGTGTTCTGCTGCTCTTTCATCCGACGC 4114  
Db 3158 TCACAGCTTGTGATGCCCTTAATCTGTATATAAAGCTTTCTTCTTACTGTCTATCCACCC 3217  
Qy 4115 TTGAGTCCAGCGTGTCTTCTCATGCGGAGCGGTGGCAACGTGGCTCCTCATCATCA 4174  
Db 3218 TTGAAAGCAGAGAACTTTTCTGTGAAGGACAGGTGTCTGTTGCTCTCTTCTTAAACA 3277  
Qy 4175 CGTGTCTGAGAGCAAGCTGGAGTACGCCACTGATGTCTGAAGCAGCTGTCTGGCCGACC 4234  
Db 3278 TTGACTGTCAACCAAGCTGTCTTCTACCTGACAGCATCTGAGGTGCTGACAGGACT 3337  
Qy 4235 TCATTGACAAGAACCTGGAGAGCAAGAACCAAGCTGTCTGCTCAGAGGACTGTAGT 4294  
Db 3338 TGAT-----GGAACAGTGTAGTAAATGTCAGCGCGAACTCATGCTGAGACGCGAGT 3391  
Qy 4295 CAGTGTGAGAGAGTGTGACCAATTTGTTTACTTCTCTCTCTCAAAATTTCTCTCAAGG 4354  
Db 3392 CCCTGTGCGAAATCTCTCACAATCTGAGTCTCTGCTCTTCTGATTTCTTCGGG 3451  
Qy 4355 AGTGTGCTGGGAGCGCTCTTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 4414  
Db 3452 AGACTGTGCGAGAGCGCTTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3511  
Qy 4415 GCGCCATTGAGCGCATCAGGCGAGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 4474  
Db 3512 GTCCCGTGGATTAATCACTTGCAGAGCGCTGTACACACTTAATGAGACTGCTGCTGCT 3571  
Qy 4475 GCCAGCAGATTGACTACAAACCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 4534  
Db 3572 GGCAGGTTCCGGAATTCAGTACTGTGCAATTAACGTCGTTCTTTGAAAAAATCCCGAAA 3631  
Qy 4535 GC-----CCGAGGTCCTCAGTAAGATCTCTCAACTGTGACACCATCA 4576  
Db 3632 ACAGAGTGCAGATGTCTGTCCGAATATTTTCACTCAATTTCTCGACTGTGACACCAT 3691  
Qy 4577 CTCAGGTCAAGGAGAGATTCTGATGCCATCTTCAAGAAATGTGCTTGTCTCCACCGGC 4636  
Db 3692 GCCAAGCCAAAGAAAGATTTTCAAGCATCTTTAAGCAAAATGCTCTCTCTTATGAC 3751  
Qy 4637 CCAAAGCTGCAGATATGATGATCTGAGTGGCGCAAGAAATGGGGGCAAGATGATCTTGC 4696  
Db 3752 TTCAGCTTAATGAAATTTGCTTGTGAGCTTCAAAATGGGCACACGACAGAAAGAAATCT 3811  
Qy 4697 AGGATGAGACATCACCACCAAGATTTGAGAAATGATTGGAAGCGACTGAAACACTGCGCC 4756  
Db 3812 ACATCGACAGTTCTCTCGGTGATTTCTGAGATGGAATCACAAGCTTAAACACCATTTGCC 3871  
Qy 4757 ACTACAGGTGCCAGATGGTTCCGTGTGGCTATTAGTGTCAAGAGAGGTGACAGCCTATA 4816  
Db 3872 ACTATGAGATATCAATGGATCCACTATAAAGTCTTTAAGAGATAGCAAAATTTTACTT 3931  
Qy 4817 ACGAGTGACCAACTCCACCGTCTCCAGGACCTCAGCAAGTAAATATGAAAAACATGATCC 4876

Db 3932 CAGATGTGAGTACTC-----GGATGACCACTGCCATTTGATTTA----- 3972  
Qy 4877 GGTACAGGGCAGCCCGACAGCCTCGCTCAGGACACCTATGATCATCTCTGACCTGG 4936  
Db 3973 ----- 3972  
Qy 4937 AGAGTGGAGTCAAGATGTGGACCTAGTGAAGAACCCAGCAGCAGGACCAAGAGGAG 4996  
Db 3973 -----CCAGATTCGGAAGCATTCCAAGATGTGCAAGGAAGAGAGAC-----ATC 4015  
Qy 4997 GGGACCGGGGAGCAGAGTGTCTGAATCTACTGACCCGACTCTCTGGCCACTAAGG 5056  
Db 4016 GAGGGAGCAGCAAGTTCAAAGTAAAGAAATGTATCTGCAAGCTGTCTGCGACCAAGG 4075  
Qy 5057 GCACACTGCAGAAAGTTTGTGGATGACCTCTTTGAGACCACTCTTCAGCAGCGGACACCCGTG 5116  
Db 4076 TGCCAAATCATCTCTGCTGAAAACTTTTAGAAGCAATTTGGAGTTTACCCACAGCA 4135  
Qy 5117 GCTCTGCCCTGCCCTGCGCATCAAGTACATGTTTGAATCTCTGATGAGCAGGCTGATA 5176  
Db 4136 GAGCT-----CCATTGTGTATAAATACCTTTTGGACCTTTTGGACGCCAGGCTGAAA 4189  
Qy 5177 AACATGCGCATTCATGACCCGACGCTCGGCATACCTTGGAGAGCAATTCCTTGCCTCTGA 5236  
Db 4190 ACAAATAATCACAGATCTCTGACGTCTGATATTTTGGAAACAAACAGCGCTTCTCTTC 4249  
Qy 5237 GGTCTGGGTCAACATGATCAAGAACCGGAGTTTGTGTTGATCTCCATGATGAGCAGCA 5296  
Db 4250 GCTTCTGGTAAACATCTCTGAGAACCCCTCAGTTTCTTTGACATTAAGAAAGACACCC 4309  
Qy 5297 TCACAGCGCTGCTCTCTGCTGCTGCTGCTCAGACCTTCTGCTGCTGCTGCTGCTGCTG 5356  
Db 4310 ATATAGCGCTGTTGTCTGATGATTTGCCAGCGCATTCATGATGATTTCTCTCACAG 4369  
Qy 5357 AGCAGCGCTGGGCAAGGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 5416  
Db 4370 AGCAGCAACTAGGGAAGGAAGCACCACCTAATAAGCTTCTCTATGCTGCAAGGATATCC 4429  
Qy 5417 GCTACAGAAATGGTGGAGGATTTACTCAGACATAGGAGATGCTGCTGCTGCTGCTGCT 5476  
Db 4430 CCTACAAAGAAAGTAAATCTTTATTAAGCAATCAGGATTTGCTTCCATTTGCTCAT 4489  
Qy 5477 ACCAAGCATGAACGCTACCTGCTGAGCAGTCCCGATGCTGCTGCTGCTGCTGCTGCTG 5536  
Db 4490 CCTCAGAAATGGAAGATTTTAACTCAGGAATCTAAGAAACATGAATGAATTTAATG 4549  
Qy 5537 CCATGAGTGACCTCAGACATCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 5594  
Db 4550 AAGAAATGGCTTACAGAAATTTTACAAATACATCGTAAATATTTTGTGAGATTTCT 4607

## RESULT 9

US-09-328-475C-37/c  
; Sequence 37, Application US/09328475C

; Patent No. 6476207

; GENERAL INFORMATION:

; APPLICANT: Zhang, Jimmy

; APPLICANT: Astel, Jon H.

; APPLICANT: Carroll III, Eddie

; APPLICANT: Endege, Wilson O.

; APPLICANT: Ford, Donna M.

; APPLICANT: Monahan, John E.

; APPLICANT: Schlegel, Robert

; APPLICANT: Steinmann, Kathleen E.

; TITLE OF INVENTION: GENES AND GENE EXPRESSION PRODUCTS THAT

; ARE DIFFERENTIALLY REGULATED IN PROSTATE CANCER

; FILE REFERENCE: 1532.002/200130.463

; CURRENT APPLICATION NUMBER: US/09/328,475C

; CURRENT FILING DATE: 1999-06-09

; NUMBER OF SEQ ID NOS: 341

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 37

; LENGTH: 1024  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)...(1024)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-328-475C-37

## Query Match

Best Local Similarity 1.5%; Score 86.4; DB 4; Length 1024;

Matches 148; Conservative 0; Mismatches 68; Indels 2; Gaps 2;

Qy 5472 CAGGACCAAGACATGATGACCCATA-CCTGCTGAGCAGTCCCGATGACATGAATGAG- 5529  
Db 780 CAGTGACCAAGCCATGAATGCTACCTCGCCGAGCAGTCCCGCTGCACNCGTGAGT 721  
Qy 5530 TTCAACACCAATGAGTGCACCTCAGAGATCTTCTCTATGTGGGCAAAATACAGCGAGG 5589  
Db 720 TTCAACATGTTGAGTGGCCCCCAATGAGATCTACTCTCTATGTACAGCAATAGTAGGAG 661  
Qy 5590 ATCCTTGAGCTCTGGACCAAGATGACCGATGTGGGAGAGAACTGGCTTCAAACTA 5649  
Db 660 CTCAATCGGGCCCTAGAGCAGGATGACAGGCGCGCGGCGGCTTGTATAGGTG 601  
Qy 5650 GAACAAGTCATAACCTCTCATGAGCTTAGACAGCTGAAA 5687  
Db 600 GAGCAGCTCATTAATGCTGCTCATGAGCTGAGA 563

## RESULT 10

US-09-313-294A-6281

; Sequence 6281, Application US/09313294A

; Patent No. 6476212

; GENERAL INFORMATION:

; APPLICANT: Laigudi, Raghunath V.

; APPLICANT: Ito, Laura Y.

; APPLICANT: Sherman, Bradley K.

; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR

; FILE REFERENCE: PL-0017 US

; CURRENT APPLICATION NUMBER: US/09/313,294A

; CURRENT FILING DATE: 1999-05-14

; NUMBER OF SEQ ID NOS: 7600

; SOFTWARE: PERL Program

; SEQ ID NO 6281

; LENGTH: 288

; TYPE: DNA

; ORGANISM: Zea mays

; FEATURE:

; NAME/KEY: misc feature

; OTHER INFORMATION: Incyte ID No. 6476212 700351536H1

; NAME/KEY: unsure

; LOCATION: 9, 19, 26, 50, 82, 109, 135, 175-176, 186, 197, 208, 217, 244

; OTHER INFORMATION: a, t, c, g, or other

US-09-313-294A-6281

## Query Match

Best Local Similarity 1.0%; Score 57.8; DB 4; Length 288;

Matches 71; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

Qy 4685 GGATGATCTTGAGGATGAAGACATCACACCAAGATTGAGATGATTGGAAGGACTGA 4744  
Db 12 GGGTGTCTGCAANATGAGGACATCACCAAGATTNAGGTGACTGGAAGCGGCTCA 71

Qy 4745 ACACACTGCCCACTTACCAGGTGCCAGATGTTCCGT 4781

Db 72 ACACACTGATNCAATATCAGGTGAGAGGGGTGTTCT 108

## RESULT 11

US-08-232-463-14/c

; Sequence 14, Application US/08232463

; Patent No. 5670367

GENERAL INFORMATION:  
APPLICANT: DORNER, F.  
APPLICANT: SCHNEIFLINGER, F.  
APPLICANT: FALKNER, F. G.  
TITLE OF INVENTION: RECOMBINANT FOXLPOX VIRUS  
NUMBER OF SEQUENCES: 52  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley & Lardner  
STREET: 1800 Diagonal Road, Suite 500  
CITY: Alexandria  
STATE: VA  
COUNTRY: USA  
ZIP: 22313-0299  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/232,463  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/07/935,313  
FILING DATE:  
APPLICATION NUMBER: EP 91 114 300.6  
FILING DATE: 26-AUG-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 30472/114 IMMU  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703)836-9300  
TELEFAX: (703)683-4109  
TELEX: 899149  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 7218 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
CLONE: pTZ9pt-F1s  
US-08-232-463-14

Query Match 0.9%; Score 49.6; DB 1; Length 7218;  
Best Local Similarity 4.0%; Pred. No. 0.058;  
Matches 16; Conservative 219; Mismatches 163; Indels 0; Gaps 0;  
QY 4649 ATATGATCTGGAGTGGGACAGGAGTGGGCAAGGATGATCTGCGAGGATGAACA 4708  
DB 1443 ATTGTACRRR 1384  
QY 4709 TCACCACCAAGATTGAGATGATTGGAAGCGACTGAACACACTGGCCCACTACCAAGTGC 4768  
DB 1383 RR 1324  
QY 4769 CAGATGTTCCGTTGGGATTAAGTTCAGCAGGAGTGCAGAGCTAATACGAGTGAACA 4828  
DB 1323 RR 1264  
QY 4829 ACTCCACCGTCTCAGGACCTCAGCAAGTAAATATGAACATGATCCGGTACACGGCA 4888  
DB 1263 RR 1204  
QY 4889 GCGCCGACACCTCGCTACGGACACTATGATCTCTGACCTGGAGAGTGGATCA 4948  
DB 1203 RR 1144  
QY 4949 AGATGTGACCTAGTGAAGACACACGACGAGACAGAGGAGGGGACCGGGGA 5008  
DB 1143 RR 1084

QY 5009 GCAAGATGTGTCTGAATCTACTAGTACCCGACTCCTG 5046  
DB 1083 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1046  
RESULT 12  
US-08-607-509-3  
Sequence 3, Application US/08607509  
Patent No. 5878735  
GENERAL INFORMATION:  
APPLICANT: Reed, Steven G.  
TITLE OF INVENTION: METHODS FOR ENHANCEMENT OF PROTECTIVE IMMUNE RESPONSES  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/607,509  
FILING DATE: 16-FEB-1996  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Maki, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.404C3  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1867 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 117..1325  
US-08-607-509-3

Query Match 0.9%; Score 49.4; DB 2; Length 1867;  
Best Local Similarity 45.3%; Pred. No. 0.034;  
Matches 179; Conservative 0; Mismatches 216; Indels 0; Gaps 0;  
QY 4049 AAGGCTTGAAGCTCTTCCGCGAGCTCATCAACAAGGTTTCTCTGCTGCTTCTATCC 4108  
DB 403 AGGCGCTTGTCTCTTCCGCGAGCTCTGCGAGCTGCGGCTTGCAGACGGCGGAGTGCAGCC 462  
QY 4109 GCAAGCTTGAAGCTTCCGCGAGCTTCTCCATGCGCGACCGTGGCAACGTTGCGCTCACTCA 4168  
DB 463 GCATCGGTGAGTCTCTGCGAACAGCTCCAAAGTTCTGCGAGACCTTTGTCGCGCGCAGC 522  
QY 4169 TCATGACCGTCTGCGAGGAGCTGAGTACGCGACTGATGTCTGAAGCAGCTGCTGG 4228  
DB 523 GCGTGCAGGATGACCTGCGCAAGCTGCGAGCGCGGCTCATCTGTCGCGGCGCAGC 582  
QY 4229 CCGACCTCATTTGACAAAGAACCTGGAGAGCAAGAACCCCTAAGCTGCTGCTCAGGAGGA 4288  
DB 583 GCGCGTCTCGAGCTGATCAAGCGTGGCGCTGCGCACAGAGTGGCTGCGCTGCTGG 642  
QY 4289 CTGAGTCAAGTGGTGAAGATGCTGACCAATGTTTACTTTCTCTCTTACAGTTCC 4348  
DB 643 TGCTCGACGAGCTGATGAGATGCTCTCAGGGCTTCGCGGACAGATTTACGAGATCT 702  
QY 4349 TCAAGGAGTGTGTCGGGAGCGCCCTTCTCTCCCTGTTCTGTGCCATCAAGCAGCAGATGG 4408



Db 703 TCCGCTTCTCCGGAAGGACATCCAGGTCGGCTCTTCTCCGCCACGATGCGCGAGGAGG 762  
QY 4409 AGAAGGGCCCATGACGCGCATCAGCGGCGAGGCC 4443  
Db 763 TACTGGAGCTGACGAAGAGTTTCATCGCGGACCCC 797

RESULT 13  
US-08-634-642-3  
; Sequence 3, Application US/08634642  
; Patent No. 5879687  
; GENERAL INFORMATION:  
; APPLICANT: Reed, Steven G.  
; TITLE OF INVENTION: METHODS FOR ENHANCEMENT OF  
; TITLE OF INVENTION: PROTECTIVE IMMUNE RESPONSES  
; NUMBER OF SEQUENCES: 15  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SEED and BERRY LLP  
; STREET: 6300 Columbia Center, 701 Fifth Avenue  
; CITY: Seattle  
; STATE: Washington  
; COUNTRY: USA  
; ZIP: 98104-7092  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/634,642  
; FILING DATE: 18-APR-1996  
; CLASSIFICATION: 424  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Maki, David J.  
; REGISTRATION NUMBER: 31,392  
; REFERENCE/DOCKET NUMBER: 210121.404C4  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 622-4900  
; TELEFAX: (206) 682-6031  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1867 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 117..1325  
; US-08-634-642-3

Query Match 0.9%; Score 49.4; DB 2; Length 1867;  
Best Local Similarity 45.3%; Pred. No. 0.034;  
Matches 179; Conservative 0; Mismatches 216; Indels 0; Gaps 0;

QY 4049 AAGGCTGAAGCTTTCGCCAGCTCATCAACAAGGTTCTCTGCTGCTCTTCATCC 4108  
Db 403 AGGGCTCTGCTCTCTCCCACTCGGAGCTGGCCCTGCAGACGGGAGGTGATCAGCC 462

QY 4109 GCACGCTTGAAGCTTTCGCCAGCTCATCAACAAGGTTCTCTGCTGCTCTTCATCA 4168  
Db 463 GCATCGGTGAGTTCTCTGTCGACAGCTTCCAGACCTTTGTCGGCGGACGC 522

QY 4169 TCATGACCGTGTGTCGAGCAAGCTTGGAGTACGCACTGATGCTGTAAGCAGCTGCTGG 4228  
Db 523 GCGTGCAGGATGACCTGCGCAAGCTTGCAGCGCGGCTCATGCTTTCGCGTGGCGCGG 582

QY 4229 CCGACTCATTTACAAGACCTGGAGCAAGAACCCATCAAGCTGCTGCTCAGGAGGA 4288  
Db 583 GCGCGGTGTCGACGCTGATCAAGCTGGCGCGCTCGGACAGAGTCGCTGCGCTGCTGG 642

QY 4289 CTGAGTCAGTGGCTGAGAGATGCTGACCAATGTTTACTTCTCTCTACAGTTCC 4348  
Db 643 TCGTCAGCAGGCTGATGAGATGCTGCTCAGGGCTTCCGCGACAGATTACGAGATCT 702

QY 4349 TCAGGAGTGTGTGGGAGCCCTCTTCTCCCTGTTCTGTGTCATCAAGCAGCATGG 4408  
Db 703 TCCGCTTCTCTCCGGAAGGACATCCAGGTCGGCTCTTCTCCGCCACGATGCGCGAGGAGG 762

QY 4409 AGAAGGGCCCATGACGCGCATCAGCGGCGAGGCC 4443  
Db 763 TACTGGAGCTGACGAAGAGTTTCATCGCGGACCCC 797

RESULT 14  
US-08-989-370-3  
; Sequence 3, Application US/08989370  
; Patent No. 6013268  
; GENERAL INFORMATION:  
; APPLICANT: Reed, Steven G.  
; TITLE OF INVENTION: METHODS FOR ENHANCEMENT OF PROTECTIVE IMMUNE RESPONSES  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SEED and BERRY  
; STREET: 6300 Columbia Center, 701 Fifth Avenue  
; CITY: Seattle  
; STATE: Washington  
; COUNTRY: USA  
; ZIP: 98104-7092  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/989,370  
; FILING DATE: 12-DEC-1997  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Maki, David J.  
; REGISTRATION NUMBER: 31,392  
; REFERENCE/DOCKET NUMBER: 210121.404C5  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 622-4900  
; TELEFAX: (206) 682-6031  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1867 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 117..1325  
; US-08-989-370-3

Query Match 0.9%; Score 49.4; DB 3; Length 1867;  
Best Local Similarity 45.3%; Pred. No. 0.034;  
Matches 179; Conservative 0; Mismatches 216; Indels 0; Gaps 0;

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Db 403 AGGGCTCTGCTCTCTCCCACTCGGAGCTGGCCCTGCAGACGGGAGGTGATCAGCC 462

QY 4109 GCACGCTTGAAGTCCAGCGTAGCTTCTCCATGCGGACCGTGCACAGCTGCTCACTCA 4168  
Db 463 GCATCGGTGAGTTCTCTGTCGACAGCTTCCAGACCTTTGTCGGCGGACGC 522

QY 4169 TCATGACCGTGTGTCGAGCAAGCTTGGAGTACGCACTGATGCTGTAAGCAGCTGCTGG 4228  
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QY 4229 CCGACTCATTTACAAGAACCTGGAGCAAGAACCCATCAAGCTGCTGCTCAGGAGGA 4288  
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Db 643 TGCTGACGAGGCTGATGAGATGCTGCTCAGGGCTTCGGGACCAAGATTACGAGATCT 702  
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Db 703 TCCGCTTCTGCGGAGGACATCAGGTGCGCTCTTCTCGGACAGATCGCGGAGG 762  
Qy 4409 AGAAGGCCCATGAGCCATCAGGCGGAGGCC 4443  
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RESULT 15  
US-09-398-169-3  
; Sequence 3, Application US/09398169  
; Patent No. 6660840  
; GENERAL INFORMATION:  
; APPLICANT: Reed, Steven G.  
; TITLE OF INVENTION: METHODS FOR ENHANCEMENT OF PROTECTIVE IMMUNE RESPONSES  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SEED and BERRY  
; STREET: 6300 Columbia Center, 701 Fifth Avenue  
; CITY: Seattle  
; STATE: Washington  
; COUNTRY: USA  
; ZIP: 98104-7092  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/398,169  
; FILING DATE: 17-Sep-1999  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/989,370  
; FILING DATE: 12-DEC-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Maki, David J.  
; REGISTRATION NUMBER: 31,392  
; REFERENCE/DOCKET NUMBER: 210121.404C5  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 622-4900  
; TELEFAX: (206) 682-6031  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1867 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 117..1325  
; SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
US-09-398-169-3

Query Match 0.9%; Score 49.4; DB 4; Length 1867;  
Best Local Similarity 45.3%; Pred. No. 0.034;  
Matches 179; Conservative 0; Mismatches 216; Indels 0; Gaps 0;

Qy 4049 AAGGCTGAGCTCTTCGCCAGCTCATCAACAAGGTGTTCTGCTGCTTCTATCC 4108  
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Db 463 GCATCGGTGATTTCTGTCGACAGCTCCAAAGTTCTGCGAGACCTTTGTCGGCGGACGC 522  
Qy 4169 TCATGACCTGTGTCGAGACAGCTGAGTACGACCTGATGCTGAAGAGCTGCTGG 4228  
Db 523 GGCTGACGATGATACCTGCGCAAGCTGAGCGCGGCTCATCTGTCCTGGGACACGCCGG 582

Qy 4229 CCGACCTCATTTGACAGAACCTGGAGAGCAAGACCCCTAAGCTGCTGCTCAGGAGGA 4288  
Db 583 GCCGCGTTCGAGCGTGATCAAGCGTGGCGCTGGCGACAGAGTCTGCTGCTGCTGG 642  
Qy 4289 CTGAGTCAGTGGCTGAGAGAGATGCTGACCAATTGGTTTACTTTCTCTCTTACAAGTTCC 4348  
Db 643 TGCTCGACGAGGCTGATGAGATGCTGTCTCAGGGCTTCGCGGACCAAGATTTACGAGATCT 702  
Qy 4349 TCAAGGAGTGTGTCGGGAGGCCCTCTTCTCCCTGTTCTGTGCCATCAGCAGCAGATGG 4408  
Db 703 TCCGCTTCTCGCGAAGGACATCCAGGTGCGGCTCTTCTCGGCCACGATGCCGGAGGAGG 762  
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Search completed: May 23, 2004, 11:09:07  
Job time : 271 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: May 23, 2004, 10:03:08 ; Search time 1467 Seconds  
(without alignments)  
17630.569 Million cell updates/sec

Title: US-09-964-956-12

Perfect score: 5691  
Sequence: 1 atgaagccatgccctgga.....gcttagacagctgaataaa 5691

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 2953838 seqs, 2272363821 residues

Total number of hits satisfying chosen parameters: 5907676

Minimum DB seq length: 0

Minimum DB seq	length: 0
Maximum DB seq	length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

**Listing first 45 summaries**

Database : Published Applications NA:★

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3: /cgn2_6/ptodata/2/pubnpa/US06_NEW_PUB.seq:
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16: /cgn2_6/ptodata/2/pubnpa/US10C_PUBCOMB.seq:
17: /cgn2_6/ptodata/2/pubnpa/US10_NEW_PUB.seq:
18: /cgn2_6/ptodata/2/pubnpa/US60_NEW_PUB.seq:
19: /cgn2_6/ptodata/2/pubnpa/US60_PUBCOMB.seq:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	5691	100.0	5691	13	US-09-964-956-12	Sequence 12, Appl
2	5680.6	99.8	6367	17	US-10-451-010-19	Sequence 95, Appl
3	2788.4	48.8	6730	15	US-10-175-523-95	Sequence 95, Appl
4	2659.4	46.7	6147	13	US-10-312-352-70	Sequence 70, Appl
5	2533.8	44.5	5895	13	US-10-087-684-31	Sequence 31, Appl
6	2533.8	44.5	5895	13	US-10-218-779-31	Sequence 31, Appl
7	1157.8	20.3	3666	16	US-10-108-260A-802	Sequence 802, App
8	793.8	13.9	2897	13	US-10-245-752-91	Sequence 91, Appl
9	793.8	13.9	2597	13	US-10-245-859-91	Sequence 91, Appl
10	793.8	13.9	2597	15	US-10-245-103-91	Sequence 91, Appl
11	793.8	13.9	2597	15	US-10-245-107-91	Sequence 91, Appl
12	793.8	13.9	2597	15	US-10-245-143-91	Sequence 91, Appl
13	793.8	13.9	2597	15	US-10-245-771-91	Sequence 91, Appl
14	793.8	13.9	2597	15	US-10-245-851-91	Sequence 91, Appl

## ALIGNMENTS

## RESULT 1

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US-09-964-956-12
; Sequence 12, Application US/09964956
; Publication No. US20040043926A1
;
; GENERAL INFORMATION:
; APPLICANT: Gerlach, Valerie L
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glenda
; APPLICANT: Millet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Grosse, William M
; APPLICANT: Alsbrook II, John P
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine E
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shimkets, Richard A
;
; TITLE OF INVENTION: No. US20040043926A1el Prote
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/09/964,956
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27

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; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
; PRIOR APPLICATION NUMBER: 60/238,399
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/238,396
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/276,667
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/294,823
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/304,868
; PRIOR FILING DATE: 2001-07-12
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 12
; LENGTH: 5691
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-956-12

Query Match 100.0%; Score 5691; DB 13; Length 5691;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 5691; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 ATGAAGCATGCGCTGGAACTGGACCTGCTTCTCCACCTCTCTATGTTGGGATG 60

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DB 61 GGCTCTCCACATTTGCTCAACCGGAGCCGAGCCGCTGTCACAGAGCAGCGGTCATT 120

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QY 181 GGNACATTTACTTGGGGCGGTCAATCGATTTACAGCTCTCCAGACCTGAAGTC 240
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DB 361 GACTACAAGAGAACAGGCTGATTGCTGTGGAGCTGTACCAAGGCACTTGCAAGCTG 420

QY 421 CTGAGGCTGGAGCACTTTCAAGCTGGGGAGCCCTTATCAAGAGAGCACTATCTG 480
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QY 541 GACAAGCTGTTCAATGTCACGGAGTGGATGGGAAGCCGAGTATTTTCCACCATCTCC 600
DB 541 GACAAGCTGTTCAATGTCACGGAGTGGATGGGAAGCCGAGTATTTTCCACCATCTCC 600

QY 601 AGCGGAACTGACCAAGAACTCTGAGGCGGATGGATGTCGCTACGCTCTTCCATGAT 660
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961 GTGCTTGGCAGGACCTTGGAGTCCATCCAGATGATGACCTGCTCTTCCACCTTCTCTCC 1020
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Qy	1801	ATGGATGGGCTGGTCTGGGCAATCAGATCCAGTGTCTACTCCCTCAGCCAAAGGAGTG	1860
Db	1801	ATGGATGGGCTGGTCTGGGCAATCAGATCCAGTGTCTACTCCCTCAGCCAAAGGAGTG	1860
Qy	1861	CCCGGATCATCAGAGATGGGACCAACATGTCGTACAGCTTCAGCTCAAAATCAAAG	1920
Db	1861	CCCGGATCATCAGAGATGGGACCAACATGTCGTACAGCTTCAGCTCAAAATCAAAG	1920
Qy	1921	GAGACCGGCATGACCTTCGCGCAGCACAGCTTTGTCTTCAAAATGCGAGCTCCACAAT	1980
Db	1921	GAGACCGGCATGACCTTCGCGCAGCACAGCTTTGTCTTCAAAATGCGAGCTCCACAAT	1980
Qy	1981	TCGTGCTGTCTGCTGGAGAGTCCATACGCTGCCACTGTGTAAATACCGCATGTC	2040
Db	1981	TCGTGCTGTCTGCTGGAGAGTCCATACGCTGCCACTGTGTAAATACCGCATGTC	2040
Qy	2041	TGCACCCATGACCCCAAGACCTGCTCTCCAGGAAGCGCGAGTGAAGCTGCCCGAGGAC	2100
Db	2041	TGCACCCATGACCCCAAGACCTGCTCTCCAGGAAGCGCGAGTGAAGCTGCCCGAGGAC	2100
Qy	2101	TGCCCCAGAGTGTGCGAGTGGACAAGATCTGTGTGCGGTGAGGTGATCAAGCCTATC	2160
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Qy	2461	TTGCGATGTGGTGTGCGAGCCAGGCGCAGTGCACCTGCGCAGCACTGCGCTGCC	2520
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Qy	2521	CAGGAGCCAGTGTGAGTGTCTGGTGCACCAAGCAAGTGCACAAACCCCGCATC	2580
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Qy	2581	ACAGAGATTAATCCCGGTGACAGGCCCCGGGAGGGGCAACAAGTCACTATCCGAGG	2640
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Qy	2881	CCAGCCGGGGCCCATGTCCGGAGGGACCAAGTGACCATCAGGCAACCACTGAAT	2940
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Qy	2941	CCCGGAACCAACAGTGTGTGATTTTGGAAAGCAGCCCTCTCTCTCCAGGCGATCT	3000
Db	2941	CCCGGAACCAACAGTGTGTGATTTTGGAAAGCAGCCCTCTCTCTCCAGGCGATCT	3000
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Db	3001	CCATCTACATGTCGCAACACCATCCCTCAGATGAGGTGCTAGAGATGAAGTGTGCG	3060
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Qy	3121	ACCATCGTGGGATGAGCAGATGAGGACCTGTCTCAGTGGAAACACACCCATCCCGTA	3180
Db	3121	ACCATCGTGGGATGAGCAGATGAGGACCTGTCTCAGTGGAAACACACCCATCCCGTA	3180
Qy	3181	TGGGGGACCCACTGGACCTCATACAGAACCCCGCAGATCCGTGCGCAAGCATGGAGGAAG	3240
Db	3181	TGGGGGACCCACTGGACCTCATACAGAACCCCGCAGATCCGTGCGCAAGCATGGAGGAAG	3240
Qy	3241	GAGCACATCAATATCTGTGAGGTTCTGAAACCTACTGAGATGACCTGTGAGGCGCCGCC	3300
Db	3241	GAGCACATCAATATCTGTGAGGTTCTGAAACCTACTGAGATGACCTGTGAGGCGCCGCC	3300
Qy	3301	CTCGCTCTGGGCTGACCCAGTCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	3360
Db	3301	CTCGCTCTGGGCTGACCCAGTCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	3360
Qy	3361	ATCTGGACAACGTCGCTGCTCATCTCTCAACAAGACCAACTTCACTACTATCC	3420
Db	3361	ATCTGGACAACGTCGCTGCTCATCTCTCAACAAGACCAACTTCACTACTATCC	3420
Qy	3421	AAACCGGCTGTTGAGGCTTCTGCTCCCTCAGAACTCTGAGCTCAAGCTGCGACGCC	3480
Db	3421	AAACCGGCTGTTGAGGCTTCTGCTCCCTCAGAACTCTGAGCTCAAGCTGCGACGCC	3480
Qy	3481	ATCATCTTAAAGGGCAAGAACCTGATCCCGCTGTGGTGGGGGCAACCTGAAGCTGAAC	3540
Db	3481	ATCATCTTAAAGGGCAAGAACCTGATCCCGCTGTGGTGGGGGCAACCTGAAGCTGAAC	3540
Qy	3541	TACACTGTGCTGGTGGGAGAGCGGTGACCGTACCGTGTGAGATGTCAGAGTGTCCAGCTGCTC	3600
Db	3541	TACACTGTGCTGGTGGGAGAGCGGTGACCGTGTGAGATGTCAGAGTGTCCAGCTGCTC	3600
Qy	3601	TGGAGTCCCGGCAACCTCATCGGAGGCAAAAGTGTGCGCGCTGTGCGTGGCATGGAG	3660
Db	3601	TGGAGTCCCGGCAACCTCATCGGAGGCAAAAGTGTGCGCGCTGTGCGTGGCATGGAG	3660
Qy	3661	TACTCCCGGGATGTTGATACATTGCGCGGAGAGCGGCTGAGCTGCGCGCATGCTC	3720
Db	3661	TACTCCCGGGATGTTGATACATTGCGCGGAGAGCGGCTGAGCTGCGCGCATGCTC	3720
Qy	3721	AGCATCGAGTGTGCGGCTCTCATCTATTTTCATGTTGCGCGCTGTCTATTGCTAT	3780
Db	3721	AGCATCGAGTGTGCGGCTCTCTCTCACTATTTTCATGTTGCGCGCTGTCTATTGCTAT	3780
Qy	3781	AAACGCAAGTCCCGGAAAGTGAACCTCAGCTGAAAGCGGCTGAGATGAGATGGAGAAC	3840
Db	3781	AAACGCAAGTCCCGGAAAGTGAACCTCAGCTGAAAGCGGCTGAGATGAGATGGAGAAC	3840
Qy	3841	CTGAGTCCCGCTGGGCTGGAGTGCAGGAAGCTTTGCGAGCTGCGAGCGGACATC	3900
Db	3841	CTGAGTCCCGCTGGGCTGGAGTGCAGGAAGCTTTGCGAGCTGCGAGCGGACATC	3900
Qy	3901	CATGAGCTGACAGTGAACCTGAGTGGAGCGGAGTTCGGTCTCTGAGCTATGAACTTAC	3960
Db	3901	CATGAGCTGACAGTGAACCTGAGTGGAGCGGAGTTCGGTCTCTGAGCTATGAACTTAC	3960







QY 1741 AGGTAAATGTCCTCGAGAGTGTGAGTGGCGTCAATGCTGACCTTTGAGGAGCTGTGACAG 1800  
Db 2306 AGGTAAATGTCCTCGAGAGTGTGAGTGGCGTCAATGCTGACCTTTGAGGAGCTGTGACAG 2365  
QY 1801 ATGGATGGGCTGGTGGGCAATCAGATCCAGTGTCTACTCCCTGACGACCAAGAGGTG 1860  
Db 2366 ATGGATGGGCTGGTGGGCAATCAGATCCAGTGTCTACTCCCTGACGACCAAGAGGTG 2425  
QY 1861 CCCCAGATCATCACAGAGAAATGGGACCAACCATGTCGACAGCTTCAAGTCAAAATCAAAG 1920  
Db 2426 CCCCAGATCATCACAGAGAAATGGGAGCACCATGTCGACAGCTTCAAGTCAAAATCAAAG 2485  
QY 1921 GAGACGGGATGACCTTCCGAGCAGCAGCTTTGTCTTACAAATGAGGCTGACCAAT 1980  
Db 2486 GAGACGGGATGACCTTCCGAGCAGCAGCTTTGTCTTACAAATGAGGCTGACCAAT 2545  
QY 1981 TCGTGCTCTCTGCTGGAGAGTCCATACCCCTGCACTGTGTGTAATATACCGGATGTC 2040  
Db 2546 TCGTGCTCTCTGCTGGAGAGTCCATACCCCTGCACTGTGTGTAATATACCGGATGTC 2605  
QY 2041 TGCACCCATGACCCCAAGACCTGCTCTTCCAGGAAGGCGAGTGAAGTGGCCGAGGAC 2100  
Db 2606 TGCACCCATGACCCCAAGACCTGCTCTTCCAGGAAGGCGAGTGAAGTGGCCGAGGAC 2665  
QY 2101 TGGCCCGAGTGTGCGAGTGGACAAAGATCCTGCTGCGGAGGTGATCAAGCTATC 2160  
Db 2666 TGGCCCGAGTGTGCGAGTGGACAAAGATCCTGCTGCGGAGGTGATCAAGCTATC 2725  
QY 2161 AGCTGAAGGCGCAAGAACCTCTCCGAGCCGAGTGTGGGACGCTGGGTACGAATGCAATC 2220  
Db 2726 AGCTGAAGGCGCAAGAACCTCTCCGAGCCGAGTGTGGGACGCTGGGTACGAATGCAATC 2785  
QY 2221 CTCAACATTCAGGGCAGGAGCAGCAGTGGCGGCTGCTGCTTCAACAGCTTCCAGCGTA 2280  
Db 2786 CTCAACATTCAGGGCAGGAGCAGCAGTGGCGGCTGCTGCTTCAACAGCTTCCAGCGTA 2845  
QY 2281 CAGTGCCAGAACCTCTTATTCTATGAAGGATGGAGATCAACAACTGCGGCTGGAG 2340  
Db 2846 CAGTGCCAGAACCTCTTATTCTATGAAGGATGGAGATCAACAACTGCGGCTGGAG 2905  
QY 2341 TTGACAGTGTGGGATGGGCACTTCAACATTTGACAAACCCAGCTCAGAAATGAATTCAC 2400  
Db 2906 TTGACAGTGTGGGATGGGCACTTCAACATTTGACAAACCCAGCTCAGAAATGAATTCAC 2965  
QY 2401 CTCTCAAGTGTGGGACCATGCTGAGAGCTGGGGCTGTGCTCAAGGCTGACCCAGAC 2460  
Db 2966 CTCTCAAGTGTGGGACCATGCTGAGAGCTGGGGCTGTGCTCAAGGCTGACCCAGAC 3025  
QY 2461 TTGCGATGTGGTGGCGAGGCGCAGGCGAGTGCACCTGCGGCGAGCTGCGCTGCC 2520  
Db 3026 TTGCGATGTGGTGGCGAGGCGCAGGCGAGTGCACCTGCGGCGAGCTGCGCTGCC 3085  
QY 2521 CAGGAGAGCAGTGGCTGGAGCTGTGTGGTGCCAAAGCAAGTGCAACAAACCCCGCATC 2580  
Db 3086 CAGGAGAGCAGTGGCTGGAGCTGTGTGGTGCCAAAGCAAGTGCAACAAACCCCGCATC 3145  
QY 2581 ACAGAGATTAATCCCGGTGACAGGCCCGGGAAGGGGACCAAGTCACTATCCGAGG 2640  
Db 3146 ACAGAGATTAATCCCGGTGACAGGCCCGGGAAGGGGACCAAGTCACTATCCGAGG 3205  
QY 2641 GAGAACTGGGCTGGAAATTCGCGACATCGCTCCCATGTCAAGGTTGTGGCGTGGAG 2700  
Db 3206 GAGAACTGGGCTGGAAATTCGCGACATCGCTCCCATGTCAAGGTTGTGGCGTGGAG 3265  
QY 2701 TGCAGGCCCTTATGGATGTTATATCCCTGCGAGAACAGATCGTGTGAGATGGGGAG 2760  
Db 3266 TGCAGGCCCTTATGGATGTTATATCCCTGCGAGAACAGATCGTGTGAGATGGGGAG 3325  
QY 2761 GCCAAGCCAGCAGCATGAGGCTTCGCGAGATCTGGTGCTGTGTGCGGCTGAA 2820  
Db 3326 GCCAAGCCAGCAGCATGAGGCTTCGCGAGATCTGGTGCTGTGTGCGGCTGAA 3385  
QY 2821 TTATGGCCCGGCTCTCACAGCTCTATTACTTATGACACTGACTCTCTCAGATCTGAAG 2880

Db 3386 TTATGGCCCGGCTCTCACAGCTCTATTACTTATGACACTGACTCTCTCAGATCTGAAG 3445  
QY 2881 CCCAGCCGGGGCCCATGTGTCGGAGGAGCCCAAGTACCATCACAGGCAACCACTGGAAT 2940  
Db 3446 CCCAGCCGGGGCCCATGTGTCGGAGGAGCCCAAGTACCATCACAGGCAACCACTGGAAT 3505  
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Db 3506 GCCGGAGCAACCTGTGTGTGATGTTGGAAAGAGCCCTGTCTCTTCCACAGGCGATCT 3565  
QY 3001 CCATCTTACATTTGCTGCAACACCATCTCTCAGATGAGTGTAGAGATGAAGTGTCTG 3060  
Db 3566 CCATCTTACATTTGCTGCAACACCATCTCTCAGATGAGTGTAGAGATGAAGTGTCTG 3625  
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Db 3626 GTGAGGTGACAGGCGCAAGATCCACAGGACCTGTCTTTTTCAGTATGTGAGAGACCCC 3685  
QY 3121 ACCATCTGCGGATTTGAGCCAGAAATGGAGCATTTGTGAGTGGAAACACACCCATCGCGTA 3180  
Db 3686 ACCATCTGCGGATTTGAGCCAGAAATGGAGCATTTGTGAGTGGAAACACACCCATCGCGTA 3745  
QY 3181 TGGGGGACCACTGAGACCTCATACAGAACCCCAAGATCCGTCGCAAGCATGGAGGAG 3240  
Db 3746 TGGGGGACCACTGAGACCTCATACAGAACCCCAAGATCCGTCGCAAGCATGGAGGAG 3805  
QY 3241 GAGCACATCAATATCTGTGAGGTTCTGAACGCTACTGAGATGACCTGTGAGGCGCGGCC 3300  
Db 3806 GAGCACATCAATATCTGTGAGGTTCTGAACGCTACTGAGATGACCTGTGAGGCGCGGCC 3865  
QY 3301 CTGCTCTGGTCTGTGACCAAGTCCAGCTCAGACCTGAGAGGCGCCGAGGAGTTTGGTTC 3360  
Db 3866 CTGCTCTGGTCTGTGACCAAGTCCAGCTCAGACCTGAGAGGCGCCGAGGAGTTTGGTTC 3925  
QY 3361 ATCTGACAACTGCGAGTCCCTCATCTCAACAGAACCACTTCACTACTATCCC 3420  
Db 3926 ATCTGACAACTGCGAGTCCCTCATCTCAACAGAACCACTTCACTACTATCCC 3985  
QY 3421 AACCCGCTGTGTGAGGCTTTGGTCTCCTCAGGAATCTTGGAGTCAAGCTGACGCGCC 3480  
Db 3986 AACCCGCTGTGTGAGGCTTTGGTCTCCTCAGGAATCTTGGAGTCAAGCTGACGCGCC 4045  
QY 3481 ATCATCTAAGGCAAGAACCTGTATCCCGCTGTGCTGGGGCAACGTTGAGCTGAAC 3540  
Db 4046 ATCATCTAAGGCAAGAACCTGTATCCCGCTGTGCTGGGGCAACGTTGAGCTGAAC 4105  
QY 3541 TACACTGTGCTGTGGGGAGAACCGTGCACCGTGCACCGTGTCCAGATGTCCAGCTGCTC 3600  
Db 4106 TACACTGTGCTGTGGGGAGAACCGTGCACCGTGCACCGTGTCCAGATGTCCAGCTGCTC 4165  
QY 3601 TGCAGTCCCGCAACCTCATCGGAGGACCAAGTGTAGCCCGTGTGCGTGGCATGGAG 3660  
Db 4166 TGCAGTCCCGCAACCTCATCGGAGGACCAAGTGTAGCCCGTGTGCGTGGCATGGAG 4225  
QY 3661 TACTCCCCGGGATGTGTATCATTTGCCGACAGCCCGCTCAGCTTCCCGCATCGTC 3720  
Db 4226 TACTCCCCGGGATGTGTATCATTTGCCGACAGCCCGCTCAGCTTCCCGCATCGTC 4285  
QY 3721 AGCATTCGAGTGTGGCGGCTCTCATCATTTTTCATTCGTGGCGGTGCTCATTTGCTAT 3780  
Db 4286 AGCATTCGAGTGTGGCGGCTCTCATCATTTTTCATTCGTGGCGGTGCTCATTTGCTAT 4345  
QY 3781 AAAAGCAAGTCCCGGAAAGTGAACCTCAAGCGGCTGAGATGAGATGAGATGAGATGAGAT 3840  
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Db 4406 CTGAGTCCCGTGTGGCGCTTGGAGTCAAGGAGCTTTGCGAGCTGCGAGCGGATC 4465  
QY 3901 CATGAGTGAACAGTGAACCTTGGATGGAGCGGAGTTCGTTCTTGGACTATGAGAACTTAC 3960



Db 4466 CATGAGCTACCACTGACCTGGATGAGCGGGATTCCCTTCTCTGGACTATAGAACTTAC 4525  
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Db 4646 AACAGGTGTCTGTCTCTTCACTCGCACCGCTTGAAGTCCAGCGTAGCTTCTCCATG 4705  
Qy 4141 CGGAGCGGTGGCAACGTTGGCTCATCATGACCGTGTGGAGCAAGCTTGAAGTTC 4200  
Db 4706 CGGAGCGGTGGCAACGTTGGCTCATCATGACCGTGTGGAGCAAGCTTGAAGTTC 4765  
Qy 4201 GCCACTGATGTGTGAAGAGCTGTGGCGAGCTCATTTGACAAAGAACTTGGAGCAAG 4260  
Db 4766 GCCACTGATGTGTGAAGAGCTGTGGCGAGCTCATTTGACAAAGAACTTGGAGCAAG 4825  
Qy 4261 AACACCGCTTAAGCTGTCTCAGGAGGACTGAGTCAAGTGTGCTGAGAGATGCTGACCAAT 4320  
Db 4826 AACACCGCTTAAGCTGTCTCAGGAGGACTGAGTCAAGTGTGCTGAGAGATGCTGACCAAT 4885  
Qy 4321 TGGTTTACTTCTCTCTCAAGTTCCTCAAGAGTGTCTGGGAGCGCTTCTCTCC 4380  
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Qy 4381 CTGTCTGTGTCATCAAGCAGCAGATGGAGAGGGCCCCCATTTGACGCCATCAAGGGCGAG 4440  
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Db 5006 GCCCGTACTCTTGGAGGAGCAAGCTCATTCGGCAGCAGATGTACTGACTACAAACCCCTG 5065  
Qy 4501 GTCCTGAGCTGTGTGAGCCAGCAAAATGCCAAACAGCCCGAGGTCCAGTAAAGATCCTC 4560  
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Qy 4621 CCTTGTCTCCAGCCGCAAGCTGCAGATATGATCTGGAGTGGCGACAGGAAGTGGG 4680  
Db 5186 CCTTGTCTCCAGCCGCAAGCTGCAGATATGATCTGGAGTGGCGACAGGAAGTGGG 5245  
Qy 4681 GCAAGGATGATCTTGCAGGATGAAGACATCAACCAAGATGAGATGATGAAGCGA 4740  
Db 5246 GCAAGGATGATCTTGCAGGATGAAGACATCAACCAAGATGAGATGATGAAGCGA 5305  
Qy 4741 CTGAACACACTGGCCCACTTACCAGTGCAGATGTTCGGTGGCATTAGTGTCCAAG 4800  
Db 5306 CTGAACACACTGGCCCACTTACCAGTGCAGATGTTCGGTGGCATTAGTGTCCAAG 5365  
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Db 5666 AGCACGGCACACCGTGGCTCTGCCCCCTCCCTGCCCACATCAAGTACATGTTGATCTCCTG 5725  
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Db 5726 GATGAGCAGGCTGATAAACAATGAGCTTCAAGCCGCGACCTGCGCCATACCTGGAAGAGC 5785  
Qy 5221 AATTGCCTGCCCCCTGAGGTTTTTGGGTCAACATGATCAAGAACCCGCAAGTTGTGTTGAC 5280  
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Qy 5461 ATGCCAGCCATCAGCGACCAAGACATGAACGATACCTGCTGAGCAGTCCCGGATGAC 5520  
Db 6026 ATGCCAGCCATCAGCGACCAAGACATGAACGATACCTGCTGAGCAGTCCCGGATGAC 6085  
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Db 6086 ATGAATAGTTTCAACACCATGAGTGCATCTCAGAGATCTTCTCTATGTGGGCAAAATAC 6145  
Qy 5581 AGCGAGGATCTTGGACCTCTGACCAACGATGACAGTGGGAAAGCAGAAACTGGCC 5640  
Db 6146 AGCGAGGATCTTGGACCTCTGACCAACGATGACAGTGGGAAAGCAGAAACTGGCC 6205  
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RESULT 3  
US-10-175-523-95  
; Sequence 95, Application US/10175523  
; Publication No. US20030096264A1  
; GENERAL INFORMATION:  
; APPLICANT: Brockman, Jeffrey  
; APPLICANT: Evans, David  
; APPLICANT: Hook, Derek  
; APPLICANT: Klimczak, Leszek  
; APPLICANT: Laeng, Pascal  
; APPLICANT: Palfreyman, Michael  
; APPLICANT: Rajan, Prithi  
; TITLE OF INVENTION: MULTI-PARAMETER HIGH THROUGHPUT SCREENING ASSAYS (MPHTS)  
; FILE REFERENCE: 3235/1J795-US3  
; CURRENT APPLICATION NUMBER: US/10/175,523  
; CURRENT FILING DATE: 2002-06-18  
; PRIOR APPLICATION NUMBER: US 60/299,151  
; PRIOR FILING DATE: 2001-06-18  
; PRIOR APPLICATION NUMBER: US 60/317,828  
; PRIOR FILING DATE: 2001-09-07  
; PRIOR APPLICATION NUMBER: US 60/325,150  
; PRIOR FILING DATE: 2001-09-25  
; PRIOR APPLICATION NUMBER: US 60/333,047  
; PRIOR FILING DATE: 2001-11-14  
; PRIOR APPLICATION NUMBER: US 60/349,936  
; PRIOR FILING DATE: 2002-01-18  
; PRIOR APPLICATION NUMBER: US 60/361,834

; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 197
; SOFTWARE: PatenIn version 3.1
; SEQ ID NO 95
; LENGTH: 6730
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(6730)
; OTHER INFORMATION: where n may be a or g or c or t/u, unknown, or other
US-10-175-523-95

Query Match 48.8%; Score 2778.4; DB 15; Length 6730;
Best local similarity 69.3%; P-red. No. 0;
Matches 3858; Conservative 0; Mismatches 1691; Indels 15; Gaps 5;

Qy 137 AGCCGCCAGGGTTCAATCACCCTGGTGGATGAGGAGGACAGACACATTTACTTGG 196
Db 683 ATCGTACGAGCTTTCAACCACTTTGACTGTACCCGAAGAAGAGGGGTGTGTATGG 742

Qy 197 GGCCCTCAATCGATTTTCAAGCTCTCCAGGACCTGAAGGTCTTTGTGACGATGAGA 256
Db 743 GGGCTATCAATCGTGTCTACAGTTGACTGGCAACCTCACCATCCAGGTGGCTCAAGA 802

Qy 257 CAGGCGGAGAGGAGCAACCCCAAGTGTACCCACCCCGATCGTCCAGACCTGCAATG 316
Db 803 CAGGGCCAGAGAGGAGCAACAGGCTTGTACCCACCCCTCATTTGACAGCCCTGGAGT 862

Qy 317 AGCCCTGACCAACCAACATGTCAACAAAGTGTCTCTATAGACTACTAGAGGAGACA 376
Db 863 AAGTGTCTACACTCACCAACATGTCAACAACTACTGATCACTGACTACTCTGAGATC 922

Qy 377 GGCTGATGCTGTGGAGCTGTACAGGCACTGTGCAAGCTGTGAGGCTGGAGGACC 436
Db 923 GCCTGTGGCTCTCGAAGCTCTACAGGGTGTGCAAGCTCTTCCAGCTCTGCACTAGATG 982

Qy 437 TCTTCAAGCTGGGGAGCTTATCAAGAAGAGCACTATCTGTGAGGTGTCAAGAGA 496
Db 983 TCTTCACTGTGGAGGCACTCCACAGAGAGCACTACTTGTCCAGTGTCAATAGA 1042

Qy 497 GCAGCTCAGCTTTTGAAGTGTATCGTCTCTACAGCAACCTGTGATGACAGCTGTTCAT 556
Db 1043 CAGGCAACATGTATGTGTGCTCTGAGGGGAGAGTGGCAAGCTTTTATCG 1102

Qy 557 CCAGGAGTGGAGGAGGAGGAGTATTTTCCCACTCTCCAGCCGGAACCTGACCA 616
Db 1103 GCATGTGTGGATGGCAAGAGATTTACTTCCCTACTCTGTCCAGCCGCAAGCTGCC 1162

Qy 617 AGAACTCTGAGGGGATGGCATGTTCCGATGCTTCCATGATGAGTTCGTGGCTCGA 676
Db 1163 GTGACCTGAGCTTTCAGCAATGCTGGACTATGAGCTCCACAGTGAATTTGTCTCCTCC 1222

Qy 677 TGATTAAGATCCCTTCGACACCTTCAACCTACCTGACTTTGATATCTACTATGTCT 736
Db 1223 TCATCAAGATTCCTCTGACACCTTAGCCCTGTCTCTCACTTCGACATCTTCTACATCT 1282

Qy 737 ATGGTTTTAGCAGTGGCAACTTTGTCTACTTTTTGACCTTCCAACTGAGATGGTCTC 796
Db 1283 ATGGCTTTGCCAGTGGGGGTTTGTCTACTTTCTCACTGTCCAGCCAGACACCCCTGAC 1342

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Db 1403 AGGATGACCCCAAGTTTCACTCTCTATGTCTCCCTTTTGGCTGACACAGCTGCTGGG 1462

Qy 914 TGGATACCGCTGTGTGAGGTGCTTACCTGTCCAAAGCGGGGCGTGTGGCAGGA 973
Db 1463 TGGAAATATGCTTCTGAGGAGCTTACCTTGCAAAGCCAGGGAAGCTCTAGCTCAGG 1522

Qy 974 CCCTTGGAGTCCATCCAGATGATGACCTGTCTTCAACCTTCTTCAAGGGGCGAAGC 1033
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Qy 1034 GGAATATGAATCCCTGGATGAGTCCGCGCTGTGCACTTTTCACTTTTGAAGACAGATAAATG 1093
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Qy 1094 ACCGCAATTAAGAGCGCTGACGTCTTGTTTACCGGGCGAGGGCACTGTGAGCTGGCCT 1153
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Qy 1154 GGCTCAAGTGAAGGACATCCCTGAGCAGTGGCTTTAACCATTGACGATAACTTCT 1213
Db 1703 GGCTGTGGGAAAGGATGTGAGTGCACCAAGGCGCTGTCCCAATGATGATACTTCT 1762

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Qy 1334 TGGCTTTTGTGGGCAACCAAAAGTGGCAAGCTGAAGAGATCCGGGTGGATGGAACCCAGG 1393
Db 1883 TGGTTTTTGTGGGACTAAGAGTGGCAAGCTGAAGAGATTCGAGCTGATGGTCCGCC 1942

Qy 1394 GCAAGCCCTCAGTATGAGACGCTGAGCTGCT---GGACCCCGCCAGTCTCCGG 1450
Db 1943 ATGTGGGGTCCAGTATGATGATGCTCTGTGTTCAAAGATGGAGGCCCAATCTCCGG 2002

Qy 1451 ATATGGCTCTTCCCAAGGACCAAGCAACTCTACATCATGTCAAGAGAGCAGCTCACTCA 1510
Db 2003 ACATGGCTCTTCCCATCAATCAGCTATACCTATATGTCTGTAGAGACAGGTCACTCA 2062

Qy 1511 GAGTCCCTGTGGAGTCTGTGGTCACTATCAGAGCTGGGGGAGTGGCTTGGCTCAGGCG 1570
Db 2063 GGGTCCCTGTGGAATCATGTGAACAGTATACAACTGTGGAGAGTGTCTAAGCTCAGGG 2122

Qy 1571 ACCCCCACTGTGGTGTGTGTGTGTCACCAACAGCTGCACCCGGAAGAGCGGTGTGAGC 1630
Db 2123 ATCTCTACTGTGGTGTGTGTGCTGCTGCAACATGTCTCCGGAAGAGACAAATGCCAAC 2182

Qy 1631 GGTCCAAAGAGCCCGCAGGTTTGTGCTGGAGATGAGAGCTGTGCTGGCTGAGCTCC 1690
Db 2183 GGGCTGGGAAGCAAAATCGATTTGTGCTCAGTATCAGCCAGTGCATGAGCTTGAAGTAC 2242

Qy 1691 ATCCCAACAATATCTCCGCTCTCAGTACAACTGTCTGTCTGTGAGAGCTGACAAATG 1750
Db 2243 ACCCAACAGCATCTCTGTGTGATCAGTCAAGCCGCTGTCTCAGCTTGTGTGAATGATG 2302

Qy 1751 TCCCGAGCTGTGAGCTGGCTCAACTGTGCACTTTTGAAGGACCTGTGAGAGATGATGGGC 1810
Db 2303 CTCCCAACCTCTCTGAAGTATTTGCTTGTGCTTTTGGGAATCTGACTGAGGTGGAGGAC 2362

Qy 1811 TGGTGTGGCAATCAGATCCAGTGTCTACTCCCTGCAAGCAAGAGAGTGGCCCGATCA 1870
Db 2363 AGGTATCTGGGAGTCAAGTCTATCTGATCTCACTGAGCCCAAGATGT---CCCTGTCA 2419

Qy 1871 TCACAGAGAAATGGGACCAACCATGTGTCAGCTTCACTCAATCAAGAGAGACCGCA 1930
Db 2420 TCCCTCTGATCAAGACTGGTTTGGCTTAGAGCTGAGCTGAGATCCAAAGAGACAGAA 2479

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RESULT 4
US-10-312-352-70
; Sequence 70, Application US/10312352
; Publication No. US20040053824A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.; TANG, Y. Tom
; APPLICANT: YUE, Henry; AZIMZAI, Yalda
; APPLICANT: HE, Ann; BATRA, Sajeev
; APPLICANT: LO, Terence P.; NGUYEN, Damiel B.
; APPLICANT: BURRILL, John D.; MARCUS, Gregory A.
; APPLICANT: ZINGLER, Kurt A.; GANDHI, Ameena R.
; APPLICANT: LAL, Preeti G.; KEARNEY, Liam
; APPLICANT: BURFORD, Neil; YAO, Monique G.
; APPLICANT: CHAWLA, Narinder K.; KHAN, Vicki S.
; APPLICANT: BAUGHN, Mariah R.; HAPALIA, April, J.A.
; APPLICANT: POLICKY, Jennifer L.; AU-YOUNG, Janice K.
; APPLICANT: LU, Yan; BOROWSKI, Mark L.
; APPLICANT: LU, Dying Aina M.; RAMKUMAR, Jayalaxmi
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; APPLICANT: WARREN, Bridget A.; GIETZEN, Kimberly J.
; APPLICANT: XU, Yuming; KALLICK, Deborah A.
; APPLICANT: LEE, Ernestine A.; THANGAVELU, Kavitha
; APPLICANT: DELEGEANE, Angelo M.; LEE, Sally
; TITLE OF INVENTION: EXTRACELLULAR MATRIX AND CELL ADHESION MOLECULES
; FILE REFERENCE: PF-0794 USN
; CURRENT APPLICATION NUMBER: US/10/312,352
; CURRENT FILING DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: PCT/US01/21067
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/215,454
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 60/219,462
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: US 60/240,111
; PRIOR FILING DATE: 2000-10-12
; PRIOR APPLICATION NUMBER: US 60/240,106
; PRIOR FILING DATE: 2000-10-12
; PRIOR APPLICATION NUMBER: US 60/244,021
; PRIOR FILING DATE: 2000-10-27
; PRIOR APPLICATION NUMBER: US 60/248,887
; PRIOR FILING DATE: 2000-11-14
; PRIOR APPLICATION NUMBER: US 60/249,570
; PRIOR FILING DATE: 2000-11-16
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: PERL Program
; SEQ ID NO 70
; LENGTH: 6147
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 2466 ATGTGCTGTGCGAGGCGCGAGGCGAGTGTGCGCGGCGGAGTGTGCGCGGCGCA 2522  
 2642 GTCCGATGTGCGTGTGCGGCGCGTGTCTCTCTGCGACCACTGCGCTGCGGACAC 2701  
 2523 GGAGAGCCAGTGTGAGTGTGTGCTGCGCAAAAGCAAGTGTGCAAAACCCCGCATCAC 2582  
 2702 ACCTGATCTGTGATGACGCGGTCAACGCGAGTGTGCGCGGCGTGTGCGGCAAGTGTG 2761  
 2583 AGAGATAATCCCGTGTGAGTGTGCTGCGGAGGCGGAGTGTGCGGAGGCGG 2642  
 2762 CAAGTGTGCGGCGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGG 2821  
 2643 GAACCTGGGCGTGGATTTGCGACATCGCTCCCATGTCAAGTGTGCGGCGTGTGCGG 2702  
 2822 GAACCTGGGCGTGGATTTGCGAGAGTGTGCGGCGTGTGCGGCGTGTGCGGCGTGTG 2881  
 2703 CAGCCCTTTAGTGTGATGTTTACATCTCTGCGAGAACAGTGTGCTGTGAGATGCGGAG 2762  
 2882 CAGCCCTGTGAGAGGAGTGTGATGAGTGTGCGGAGGAGTGTGCTGTGAGATGCGGAG 2941  
 2763 CAAGCGC--AGCGAGCATGCGGCTGTGAGAGTGTGCGGCGTGTGCGGCGTGTG 2819  
 2942 CAGCTCGTGTGCGGCGTGTGAGAGTGTGCGGCGTGTGCGGCGTGTGCGGCGTGTG 3001  
 2820 ATTATGCGCGGCTGTGAGTGTGATGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 2879  
 3002 CTACCGGCGCTGTGAGGAGGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 3061  
 2880 GCGGAGCGGCGGCGGAGTGTGAGGAGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 2939  
 3062 CCGCTCGGCGGCGGCGGAGTGTGAGGAGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 3121  
 2940 TGCGGAGGAGCAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 2999  
 3122 CGCAGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 3181  
 3000 TCCATCTGATGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 3059  
 3182 CTCCGCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 3241  
 3060 GGTGAGGAGGAGGCGGCGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 3116  
 3242 CATCAACATCAACCGCGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 3301  
 3117 CCGGAGGAGGAGGCGGCGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 3176  
 3302 CCGGAGGAGGAGGCGGCGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 3361  
 3177 GGTATGAGGAGGAGGCGGCGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 3236  
 3362 GGTACAGGAGGAGGCGGCGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 3421



Db 4487 TAAGTGGTACCTTCTCTGTATAGTTCTCAAGAGATGCGTGGGAGCGCGTGT 4546  
Qy 4377 CTCCTGTTCTGTGTCATCAAGCAGCAGATGAGAGGCGCCCATTTGACGCGCATCAGGG 4436  
Db 4547 CATGCTGTACTGCGCCATCAAGCAGCAGATGAGAGGCGCCCATTTGACGCGCATCAGGG 4606  
Qy 4437 CGAGCGCGCTACTCTGTGAGGAGAGCAAGCTCATCGCCAGCAGATGACTCAAAAC 4496  
Db 4607 TGAGGACCGCTACTCTGAGTGAAGCAAGCTCATCGCGCAGATGACTCAAGAC 4666  
Qy 4497 CTTGTCCTGAGTGTGTCAGCCAGCAATGCCAGCGCCGAGGTCCTCCAGTAAGAT 4556  
Db 4667 ACTGACCTGAACTGTGTAACCTGAGAAATGAGAAATGCACTGAGGTGCGGTGAAGG 4726  
Qy 4557 CTTCACTGTGACCACTCACTCAGTCAAGCAGAGATTTCTGATGCACTCTCAAGAA 4616  
Db 4727 GCTGGAATGTGACACCGTCAACGAGCCCAAGGAGAGCTGCTGGAAGCTGCTCAAGGG 4786  
Qy 4617 TGTGCTTGTCTCCACCGGCCCAAGCTCAGATATGATTTGGAGTGGCGCAAGGAAG 4676  
Db 4787 CGTGGCTACTCTCCAGCGGCCCAAGGCGCGGACATGACCTGGAGTGGCGCGGCGCG 4846  
Qy 4677 TGAGGCAAGATGATCTTCAGGATGAAGACATCCACCAGATTTGAGATTTGAA 4736  
Db 4847 CATGGCGCGATCATCTGAGGACGAGACGTCAACCAAGATTTGACGATTTGAA 4906  
Qy 4737 GCACTGAACACACTGCGCCACTPACAGGTGCGAGATGTTCCGTGGTGGCATTTAGTTC 4796  
Db 4907 GAGCTGAACACACTGCTCACTTACAGGTGACAGCGGTCTCGGTGGCATTTAGTTC 4966  
Qy 4797 CAGCAGGTGACAGCTATTAAGCAGTGAACACTCCACCGCTCCAGGACCTCAGCAAG 4856  
Db 4967 CAGCAGAGCTCGGCTTACCAATCTCACTCTCCACTTCCAGCTTCAAGAG---TCCTCAG 5023  
Qy 4857 TAAATATGAACATGATCGGTGACAGGCGAGCGGAGCGGCTCCGCTCAGGACACC 4916  
Db 5024 CAGATCAGAGAGATGTCGCGCAGCGGACAGCGGCTCCGCTCAGGACACC 5083  
Qy 4917 TATGATCACTCTGACCTGAGAGTGGAGTGAAGTGGACCTAGTGAAGACCAAGA 4976  
Db 5084 CATGATCAGCGCCGACTGAGAGCGGACCAAGCTGTGGACCTGTGTGAAGACCAAGA 5143  
Qy 4977 GCACGAGACAGAGAGGAGGAGCGGCGGAGCAAGATGTTGTGAAATCTACCTGAC 5036  
Db 5144 CCACCTGACAGCGTGAAGGTGACCGCGGACAGAGATGTTGTGAGATCTACTTGCAT 5203  
Qy 5037 CCGACTCTGCGCCACTAAGGACACTGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT 5096  
Db 5204 ACGCTACTGCGCCACAGGCGACACTGAGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT 5263  
Qy 5097 CTTGACGACGACACCGTGGCTCTGCGGCGGCTCAGCGCTGCGGCTCAGAGTGTGAGTGT 5156  
Db 5264 CTTGACGACGACACCGGCGCTCAGCGCTGCGGCTCAGAGTGTGAGTGTGAGTGT 5323  
Qy 5157 CCGATGAGCGGCTGATAAACATGGCTTCATGACCGGCGGCTCAGCGCTCAGCGCTGAG 5216  
Db 5324 CTTGATGAGCGGCTGATAAACATGGCTTCATGACCGGCGGCTCAGCGCTCAGCGCTGAG 5383  
Qy 5217 GAGCAATGCTGCTGCGGCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT 5276  
Db 5384 GAGCAATGCTGCTGCGGCTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGT 5443  
Qy 5277 TGACATCCATGAAGACAGCATCAGAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 5336  
Db 5444 CGACATTCACAGAACAGCATCAGAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 5503  
Qy 5337 GGAATCTTGTCTCAAGTCAAGACCGGCTGGGCAAGGACTCGGCTCCCAAGCAAGTCT 5396  
Db 5504 GGAATCTTGTCTCAAGTCAAGACCGGCTGGGCAAGGACTCGGCTCCCAAGCAAGTCT 5563  
Qy 5397 GTATGCAAGGACATCCAGTCAAGATTCGCTGGAGAGGTATTAATCTCAGACATAGG 5456

Db 5564 CTACGCCAAGGACATCCCAACTACAAGAGCTGGTGGAGAGGTACTATGACAGATCGC 5623  
Qy 5457 GAAGATGCGAGCATCAGGACCAAGACATGAACGATATACCTGGCTGAGAGTCCCCGAT 5516  
Db 5624 CAAGATGCGAGCATCAGGACCAAGACATGAAGTGGCTATCTGGCTGAGCAGTCCCCGCT 5683  
Qy 5517 GCACATGAATGATTTCAACACCATGAGTGCATCTCAGAGATCTTCTCTATGTGGCAA 5576  
Db 5684 GACCTGAGCAGTTCAACAGCATGAGCGCTTGCACGAGATCTACTCTACATCACCAA 5743  
Qy 5577 ATACAGCGAGGAGATCTTTGACCTCTGACCTCTGACCAAGATGACAGTGTGGAAAGCAAACT 5636  
Db 5744 GTACAGGATGAGATCTCTGGCAGCGCTTGGAGAGGATGAGAGCGCGCGCAGCGCT 5803  
Qy 5637 GCGTACAACTAGAACAGTCAATAACCTCATGAGCTTAGACAGCTGA 5685  
Db 5804 GCGGAGCAAGCTGGAGCAGTGGTGGACACGATGGCTTGGCTTGGAGCTGA 5852

## RESULT 5

US-10-087-684-31  
; Sequence 31, Application US/10087684  
; Publication No. US20040029116A1  
; GENERAL INFORMATION:  
; APPLICANT: Edinger, Shlomit R.  
; APPLICANT: MacDougall, John R.  
; APPLICANT: Millet, Isabelle  
; APPLICANT: Ellermer, Karen  
; APPLICANT: Stone, David J.  
; APPLICANT: Grose, William M.  
; APPLICANT: Lepley, Denise M.  
; APPLICANT: Rieger, Daniel K.  
; APPLICANT: Burgess, Catherine E.  
; APPLICANT: Casman, Stacie, J.  
; APPLICANT: Spytek, Kimberly A.  
; APPLICANT: Boldog, Ferenc L.  
; APPLICANT: Li, Li  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Mishra, Vishnu  
; APPLICANT: Shenoy, Suresh G.  
; APPLICANT: Pastelli, Luca  
; APPLICANT: Tchernev, Velizar T.  
; APPLICANT: Vernet, Corine A.M.  
; APPLICANT: Zerhusen, Bryan D.  
; APPLICANT: Malyankar, Uriel M.  
; APPLICANT: Guo, Xiaojia  
; APPLICANT: Miller, Charles E.  
; APPLICANT: Gangolli, Bsha A.  
; TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS ENCODING SAME  
; FILE REFERENCE: 21402-214 CIP  
; CURRENT APPLICATION NUMBER: US/10/087,684  
; PRIOR FILING DATE: 2003-03-10  
; PRIOR APPLICATION NUMBER: 60/253,834  
; PRIOR FILING DATE: 2000-11-29  
; PRIOR APPLICATION NUMBER: 60/250,926  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: 60/264,180  
; PRIOR FILING DATE: 2001-01-25  
; PRIOR APPLICATION NUMBER: 60/274,194  
; PRIOR FILING DATE: 2001-03-08  
; PRIOR APPLICATION NUMBER: 60/313,656  
; PRIOR FILING DATE: 2001-08-20  
; PRIOR APPLICATION NUMBER: 60/327,456  
; PRIOR FILING DATE: 2001-10-05  
; NUMBER OF SEQ ID NOS: 220  
; SOFTWARE: CuroSeqlist version 0.1  
; SEQ ID NO 31  
; LENGTH: 5895  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (23)..(5797)



US-10-087-684-31

Query Match 44.5%; Score 2533.8; DB 13; Length 5895;  
 Best Local Similarity 68.0%; Pred. No. 0;  
 Matches 3812; Conservative 0; Mismatches 1712; Indels 81; Gaps 17;

Qy	141	CGCCGAGGTTTCAATCACTGGTGGTGGATGAGAGGACAGACATTTACTTGGGGGC	200
Db	217	CGACTGGGGCCCTACCCAGCTAGTGGTGGATGAGAGAGAGGAGTGTATGTGGGGC	276
Qy	201	CGTCAATCGGATTTTAAAGCTCTCCAGCGACCTGAAGGTCTTGGTGACGCATGAGACGG	260
Db	277	AGTGAACCCGATCTATAAGCTGTGGGGAACTGACACTGTGCGGGCCACGTCACGGG	336
Qy	261	GCGGACGAGGACCAACCCAGTGTATCCACCCCGCATCTGTCAGACTGCAATGAGCC	320
Db	337	CGCTGTGGAGGACCAACGAGAGTGTATCCCGCGCCAGCGTGCAGTCTGCGCCCAAG	396
Qy	321	CTGTACACCCACCAACATATGTCAACAAAGATGCTCTCATAGACTCAAGAGGAAAGGCT	380
Db	397	CTGGGAGTACTGACAAAGCTCAACAGCTGTGCTGTGGATATGCGCGCTAACCGCT	456
Qy	381	GATTGCTGTGGAGGCTGTACCAAGGATCTGCAAGCTGCTGAGGCTGGAGGACTCTT	440
Db	457	GCTGGGCTGTGGAGGCGCTCCAGGGCATCTGCCAGTTCCTGGGTCTGGAGCATCTCT	516
Qy	441	CAAGCTGGGGAGGCTTATCATAGAGGAGGACTATCTGTAGGTGTCAACGAGAGCGG	500
Db	517	CAAACTGGGTGAGCCACACACCGTAAGGAGCACTACTGTCCAGGTGCGAGGAGCG	576
Qy	501	CTCAGTCTTTGGAGTGTATGCTCTCCACA-----GCAACTGGATGACAGCTGTTCAT	554
Db	577	CAGCATGGCGGGGTGTCTATTGCCGGGCCACCGGGCCAGGGCCAGGCTCTTGT	636
Qy	555	TGCCAGGAGTGGAGGAGCGGAGTATTTTCCACCATCTCCAGCGGAAACTGAC	614
Db	637	GGGACACCCATCATGGCAAGTCCGAGTACTTCCCACTCTCCAGCGGCTCGGTCTAT	696
Qy	615	CAAGAACTCTGAGCGGATGGCATGTTCGGGTAGCTTCCATGATGAGTTCGGGCTC	674
Db	697	GGCCAAACGAGGAGATCCGACATGTTCGGCTTCGCTACCGAGTGTGCTGTCTATC	756
Qy	675	GATGATTAGATCCCTCGGACACCTTCCACATCATCCCTGACTTTGATATCTACTATGT	734
Db	757	ACAGCTCAAGATCCCTTCGGACACGCTGTCCAGTTCGGGCTTCCGATCTACTATGT	816
Qy	735	CTATGGTCTTGGAGTGGCACTTTGTCTACTTTTGAACCTCCAACTGAGATGGTCT	794
Db	817	GTACAGCTTCGCGAGGAGAGTGTGTCTACTACTCTCACTGCTGAGCTAGACACAGCT	876
Qy	795	TCCACAGGCTCCACCAAGGAGGAGGTGTATACATCCAGCTCGTGGGCTTTGCAA	854
Db	877	GACCTCGCTGATCCGCGCGGAGCACTTCTCACGTCCAAAGATCGTGGGCTCTGTGT	936
Qy	855	GGAGACACAGCTTCAACTCTATGTAGAGTGGCCATTTGGCTGTGAGCGCAGTGGGT	914
Db	937	GGACGACCCCAATTTCTACTGCTAGTGTAGTTCCTCATTTGGCTGCGAGCAGGCGGT	996
Qy	915	GAGTACCGCTGTGAGGCTGCTACTGTCCAAAGCGGGGCGGTGTGGCAGGAC	974
Db	997	GGAGTACCGCTGTGAGGATGCTACTCTAGCGCGGCGCGGCTGCTGGCCCAACA	1056
Qy	975	CCTTGGAGTCCATCCAGATGATGACTGCTCTTCAACCGTCTTCTCCAGGCGCCAGAAAGCG	1034
Db	1057	GCTGGGCTGGCTGAGGACGAGGAGCTGCTGTCTACTGTGTTCGCCAGGCGCAGAAAGAA	1116
Qy	1035	GAAATGAAATCCCTGGATGAGTGGCCCTGTGATCTTCACTTGAAGCAGATTAATGA	1094
Db	1117	CGCGGTGAAGCCACCAAGGAGTACGACTGTGCTGTGTCTACGTCAAGGCGCATCAAGGA	1176
Qy	1095	CCGCAATTAAGGAGCGCTGAGTCTTGTATCCGGGGCGAGGCGAGCTGAGACCTGGGCTG	1154
Db	1177	GAAGATTAGGAGCGCATCCAGTCTGCTGCTACCGTGTGGAGGCGAGCTCTCCCTGCGCTG	1236

Qy	1155	GCTCAAGGTGAGGACATCCCTGACGAGTGGCTCTTAAACATTGACGATAACTTCTG	1214
Db	1237	GCTGCTCAACAGGAGCTGGCTGCTCATCACTCGCCCTGCAGATCGATGACGATCTCTG	1296
Qy	1215	TGSCCTGGACATGAATGCTCCCTGGAGTGTCCGACATGGTGGTGGAAATTCCTCTT	1274
Db	1297	CGGCGAGGACTTCAACAGCCCTCGGGGGGCAAGTCAACATTGAGGGGAGCGCCCTGT	1356
Qy	1275	CACGAGGACAGGAGCGGATGACGCTGTCTGTCGATATGTCTACAAAGAACCATCTCT	1334
Db	1357	CGTGGACAGAGATGATGGCTGACCGCGTGGCTGCTATGACTATCGGGGCGGACATGT	1416
Qy	1335	GGCCTTTGTGGGACCAAAAGTGGCAAGTGAAGAAGATCCGGGTGGATGGACCCA-----	1390
Db	1417	GGTATTCCCGGCAACGCGAAGTGGCGCATCCCAAGATCTCTGGTGGACCTCTCAAAACC	1476
Qy	1391	-----GGGGCAACGCTCTCCAGTATGAGACGGTGGAGTGGTGGACCCCGGCGAGTCT	1445
Db	1477	CGTGGCGGCTGCTCCCTGGCTACGAGACGCTGTGGCCCGGAGAGGGGAGCCCCATCT	1536
Qy	1446	CCGGATATGGCTTCTTCCAAAGGACACGAGCAACTCTTACATCATGTCTGAGAGGAGCT	1505
Db	1537	GCAGAGCTCTGCTCTCAGCCCAACACACAGTACTCTACGCCATGACCCGAGAGCAGGT	1596
Qy	1506	CACAGAGTCCCTGTGGAGTCTGTGTGCTGAGTATCAGAGCTGCGGGAGTGCCTTGGCTC	1565
Db	1597	GACCGGGTGGCTGTGGAGAGCTGTGTCAGTACACGCTCTGTGAGCTGTCTGGGCTC	1656
Qy	1566	AGGCGACCCCACTGTGGCTGGTGTGCTGTCACAAACACAGTGCACCCGGAAGAGCGGTG	1625
Db	1657	ACGGGACCCCACTGTGGCTGGTGTGCTGTCAGCATGTGCTGCGGGGGGAGCGCTG	1716
Qy	1626	TGAGCGGTCAAGGAGCGCGGAGTGGCTGGAGATGAAGAGTGTGCGGCTGAC	1685
Db	1717	TGAGCGAGCAGAGCGCGGAGCTTGTGTCGGGAGCTGTGTCAGTGTGTGTCAGCTGAC	1776
Qy	1686	GGTCCATCCCAACAAATATCTCCGTCTCTCAGTACAAAGTGC-----TGCTGGTCTGGAGAC	1742
Db	1777	TGTGAGCGCGGAGATGTGTCTGTCACCATGTCTCCAGTCTCCAGTACTTGTGCTGCAAGC	1836
Qy	1743	GTACAAATCTCCGAGCTGTGAGTGGCTCACTGCACTTTGAGGACCTGTGAGAGAT	1802
Db	1837	CTGGAACCTGCTGACCTCTCAGTGGGCTCACTGTCTCTTCAGGAGCTTTCAGGAACTC	1896
Qy	1803	GGATGGGTGTGCTGGGCAATCAGATCCAGTGTCTCTCCCTGCGAGCAAGAGGAGTGC	1862
Db	1897	TGAGAGCTCTGGAGGATGGCGGATCCACTGCGCTCACTCCGCGCGGAGGTGGC	1956
Qy	1863	CCGGATCA-----TCACAGAGAAATGGGGAACCATGTCTGTAAGCTTCAATC	1916
Db	1957	GCCCATCACGGGGCCAGGGGTGAGGGAGACCGGGGTGGTGAACCTCTACCTAAAGTC	2016
Qy	1917	AAAGGAGCCGCAATGACTTCCGCGAGCACAGCTTCTCTTACAAATTCAGCGCTCCA	1976
Db	2017	CAAGGAGACAGGAGAGAGTGTGCTGTGGACTTCTCTTCTTCTACAACTGCAAGCTCCA	2076
Qy	1977	CAATTG-----TGCTGTCTGCTGGAGAGTCCATACCGCTGCCACTGGTGAATACCG	2033
Db	2077	CCAGTGGAGCTGCTGTCTGTGTCAACGGCTCTCTTCCCTGCCACTGGTGAATACCG	2136
Qy	2034	GATGTCTGCAACCATGACCCCAAGACCTGCTCTTCCAGGAGGCGGAGTGAAGTGC	2093
Db	2137	CCAGTGTGCAACACACAGCTGGCTGACTGCGGCTTCTTGGAGGCGGCTGTCAAGTGT	2196
Qy	2094	CGAGGACTGCGCCCGGAGCTGCTGCGAGTGGACAAAGATCTTGTGCTGGAGGAGTGA	2153
Db	2197	TGAGGACTGCCACAGATCTTCCCTTCCACGAGATCTACGTGCCAGTGGAGTGGTAA	2256
Qy	2154	GCTATACAGCTGAAGGCCAAGAACCTCCCGGAGCGGAGTCTGGGAGCGGTGCTACCA	2213
Db	2257	ACCCATCACCTTGGCGGCGGAGCCTGCCACAGGCCACAGTCAGGCCAGCTGGATGA	2316

Qy	2214	ATGCATCTTCAACATTTACGGGCAGGCAGCAGAGTGCCGCCCTTGCCTTCAACAGCTC	2273
Db	2317	GTGCCCTTTCCACATCCCGGGCAGCCCGCCCGTGTCAACGCCCTTGCCTTCAACAGCTC	2376
Qy	2274	CAGCGTACAGTGCACAAACACCTCTTTATTCCTATGAAGGGATGGAGATCAACAACTCTGCC	2333
Db	2377	CAGCTTGAGTGCACAAATCTCTGTACTCTTACGAGGGGAACGATGTGAGGACCTGCC	2436
Qy	2234	CGTGGAGTTTGACAGTCTGTGGAATGGGCACCTTCAACATTGACAAACCCAGCTCAGAAATA	2393
Db	2437	AGTGAACCTGTCACTCGTGTGGAAACGGCAACTTTGTTCATTGACAAACCCACAGAAATCCA	2496
Qy	2394	AGTTCACTCTCAAGAGTGTGGACCAATCGTGTGAGAGCTGCGGGCTGTGCTCAAGGCTGA	2453
Db	2497	GGCGCACTCTCAAGTGTCCCGCCCTTGGCGGAGAGCTCGGCCTTGCCTCAAGGCCGA	2556
Qy	2454	CCAGACATTGCGCATGTGGCTGTGCCAGGCCCCAGGCCAGTGCACCTCTCGCCACACTG	2513
Db	2557	CCCGCTTCGAGTGCAGATGTGCTGTGCGCGAGCGCCGCTGCTCCCTCGACACCACTG	2616
Qy	2514	CCCTGCCCA---GGAGAGCAGTGGCTGGAGCTGTCTGTGTGCCAAAGCAAGTGCACAA	2570
Db	2617	CGTGTCCGACACACCTGTCACTGTGTGAATGACGCGCGTCAAGGAGCAGTGTGTGACCGA	2676
Qy	2571	CCCCCGCATCACAGAGATATCCCGCTGTACAGGCCCCCGGGAAGGGGGCACCAAGTCAAC	2630
Db	2677	CCCCAGATCTCAAGCTGTCCCCTGAGAGCGGCCCGAGCGAGGCGCGCACCGGCTCAC	2736
Qy	2631	TATCCGAGGGAGAACTGTGGCTGTGAAATTTCCGACATGCGCTCCCATGTCAAGTGTGC	2690
Db	2737	TATCA CAGGCGAGAACTGTGGCTGTGGATTCGAGAGACGTGCGCTGTGGGCGTGGCGTGG	2796
Qy	2691	TGGCGTGGAGTCAGACCCCTTTAGTGGATGTTATCATCTTCAGAACACAGATCGTGTGTA	2750
Db	2797	CAGGTCTGTGTGAGCCCTGTGAGAGCGAGTACATCAGTTCGAGCAGATCGTCTGTGA	2856
Qy	2751	GATGGGGAGGCCAAGGCC---AGCCAGCATGAGGCTTGTGTGGAGATCTGGGTGGCTGT	2807
Db	2857	GATCCGGGAGCGCAGCTCCGTGTGCGCCATGACGCCCTGTGTGAGAGTGTGTGTGCGGA	2916
Qy	2808	GTGTGCGCTGCAATTCATGCCCCGTCTCTCACAGCTCTATTATTTATGACACTGACTCT	2867
Db	2917	CTGTCTACCACTACCGCGCCCTGTGACCAAGCGCTTCACTTGTGACCAACCTT	2976
Qy	2868	CTCAGATCTGAAGCCACCGCGGGGCCCATGTTCGGAGGAGCCCAAGTGCACATCACAG	2927
Db	2977	CTACCGTGTGAGCCCTCCGTGGCCCTGTGTGAGGGGGCACCTGGATTGGCATCGAGG	3036
Qy	2928	CACCAACTGATCCGGAGACACGTGTGTGTGATGTGTTTGGAAAGCAGCCCTGTCTCTT	2987
Db	3037	AAGCCACTGAACCGAGCAGTGTATGTGCTGTGTGCGTGGTGGCGGCCCTGTCTCTT	3096
Qy	2988	CCACGGCGATCTCCATCTCATTTGTCTGCAACACACATCTCTCAGATGAGGTGCTAGA	3047
Db	3097	CTCTGTTCCAGGAGGAATCTCCGTGAGATCCCGTGTCTGACACCCCGCGGCAGAGGCC	3156
Qy	3048	GATGAAGGTGTCCGTGTGAGGTGAGCAGGGCC-----AGATCCACAGGACCTGCT	3098
Db	3157	TGGCAGCGCTCCCATCATCATCAACATCAACCGCGCCCGAGCTCACCAACCCCTCAGGTGA	3216
Qy	3099	CTTTTCAGTGTGGAAGACCCCACTCGTCCGATTGAGCCGAAATGGAGCATTTGTGAG	3158
Db	3217	GTAACACTACCGAGGACCCCACTCTGTAGGATCGA CCCCAGTGTGAGCATCAACAG	3276
Qy	3159	TGGAAACACACCATTCGCCGTATGGGGACCCCACTGGA CTTCTATACAGAACCCCCAGAT	3218
Db	3277	CGGTGGGACCTCTCTGACGGTCA CAGGACCAACTCTGCCCACTGTCCGTGAAACCCCAAT	3336
Qy	3219	CGTGTCCAGCATGAGGAGGAGGACATCAATATCTGTGAGGTTCTGAGCGTACTGA	3278
Db	3337	CCGGGCCAAGTATGAGGCAATTGAG---AGGAGAACTGCTGTGTGTATGATGACACAC	3393
Qy	3279	GATGACCTGTGAGGCGCCCGCCCTCGCTCTGGGTCTTGACACACAGTACAGACTGACCGA	3338

3384	Db	CATGGTATGCGCGCCCGCTGTGGCAACCCCTGTGGCAGCCCA	3453
3339	Qy	GAGCGCCGAGGATTTGCGCTTCATCCTTGGACAACGTC	3398
3454	Db	CGCGCCGATGAGCTGGCGCTTCGTCATGGACAACGTC	3513
3399	Qy	GACCAACTTCACCTACTATCCCAACCGGTGTTTGGCGCTT	3458
3514	Db	CACCTCCCTTCCTACTACCTTGACCCCGTACTGAGCCCA	3573
3459	Qy	GGAGCTCAAGCGCTGGCAGCCCATATCCTAAAGGGCAAG	3518
3574	Db	GGAGCTGAAGCCAGCTCCCACTCATCTCAAGGGCGGA	3630
3519	Qy	TGGGGCAACGTGAAGCTGAACTACCTGCTGGTGGGGAG	3578
3631	Db	ACCCGGCAACTCCCGACTCAACTACCGGTGCTCATCGG	3690
3579	Qy	CGTGTCAGATGTCAGCTGCTCTGGAGTCCCAACCTCAT	3638
3691	Db	CGTGTGGAGCGCAACTGCTGTGCGAGCGCCCAACCTC	3750
3639	Qy	GGCCGCTGTGCGTGGCATGGAGTACTCCCGGGGATGGT	3698
3751	Db	GGTGGGTGCGAGTGGCTTCGAGTTCTGCCAGGGACACT	3810
3699	Qy	GCTCAGCCTGCCCGCCATCGTCAGCATCGCAGTGGCTG	3758
3811	Db	GTGTAGCGTGTCTGCCATTTGTGGGCATTTGGCGAGCG	3870
3759	Qy	CGTGGCGGTGCTCATTTGCCCTATPAAACGCAAGTCCG	3818
3871	Db	CGTGGGTGTGCTCATCGCCTCAACGCGAAGTACAGATG	3930
3819	Qy	GCTGCAGATGCAGATGGACAACCTCGAGTCCCGTGTG	3878
3931	Db	GCTGCAGCTCCAGATGGACAACCTGAGTCCCGGTGGC	3990
3879	Qy	TGCGAGCTGCAGACGACATCCATGAGTGAACAGTGA	3938
3991	Db	TGCAGAGCTGCAGACAGACATCCAGAGCTGACCAATG	4050
3939	Qy	GTTCCTGGACTATAGAACTTACACATCGGGTGTGTTCC	3998
4051	Db	CTTCCCTTGACTACCGACATATGCCATGCGGGTGTCTT	4110
3999	Qy	TGTCTCTCCGGGACCTTTGAGGTCCCGGGCTACCGGAG	4058
4111	Db	TGNGTCTCAAGGAGATGGAGGTACAGGCCAA-----	4158
4059	Qy	GCTTTTCGCCCGCTCATCAACAAAGGTGTTCTGCTGTG	4118
4159	Db	ACTGTTTCGGGCACTGCTGACCAAGAACACTTCTTGCT	4218
4119	Qy	GTCCCAAGCTAGTCTTCTCATGGCGACCGTGGCAACG	4178
4219	Db	GGCACAGCGCAGTTTCTCCATGCGCGACCGCGGAATG	4278
4179	Qy	GCTGCAGACAAGCTGGAGTACGCCACTGATGTGCTGA	4238
4279	Db	CCTGCAGGGCGAGATGGAATACGCCACAGCGGTGCTCA	4338
4239	Qy	TGCACGAACCTCGAGAGCAAGAACAACCTAAGCTG---	4295
4339	Db	CGAGAGAALCTGGAGAGCAAGAACCAACCCAGCTGCT	4398
4296	Qy	AGTGGCTGAGAAGATGCTGACCAATTGGTTTACTTCTC	4355
4399	Db	GGTGGCAGAGAAGATGCTAACTAACTGGTTTCACTTCT	4458
4356	Qy	GTGTGCTGGGAGCCCTCTTCTCCCTGTTCTGTGCCAT	4415

Db 4459 GTGGCTGGGAGCGCTGTTTCATGCTGTACTGCGCCATCAAGCAGCAGATGGAGAGG 4518  
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 Db 4519 CCCCATTGAGCCATCAAGGCGAGCGCTTACTCTTTGAGCGAGGACAAGCTCATCCG 4578  
 Qy 4476 CCAGCAGATTGACTCAAAAACCTGCTCTGAGCTGTGTGAGCCAGCAATGCCAACAG 4535  
 Db 4579 GCAGCAGATTGACTCAAGACACTGACCTTGAACTGTGTGAACCTTGAGATGAGATGC 4638  
 Qy 4536 CCCCAGGTCCTCAGTAAAGATCCTCAATGTGACACCATCTACTCAGGTCAAGGAGAAGT 4595  
 Db 4639 ACTGAGGTGCGGTGAGGCGCTGACTGTGACACCGGTCAACCCAGGCGCAAGAGACT 4698  
 Qy 4596 TGTGATGCGATTTCAAGAAATGCTGCTTCTCCACCGGCCCAAGCTGCAGATATGGA 4655  
 Db 4699 GTGGACGCTGCTCTCAAGGGCGTCCCTTACTCCAGCGGCCCAAGCGCGCGCATGGA 4758  
 Qy 4656 TCTGAGTGGCGACAAAGGAGTGGGCAAGGATGATCTTGCAGGATGAAGACATCACCAC 4715  
 Db 4759 CTTGAGTGGCGCGAGGCGGATGCGCGCATCTCTGACGAGCAGGAGCTCACCAC 4818  
 Qy 4716 CAAAGTGAATGATGAGGAGTGAACACTGACACTGCGCCACTACCGAGTCCAGATGG 4775  
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 Qy 4776 TCCGCTGGTGGATAGTGTCCAAAGCAGGTGACAGCTTAAACGAGTGAACAACTCCAC 4835  
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 Qy 4836 CGTCTCCAGACCTCAGCAGCTTAATATGAAACATGATCCGGTACACGGGAGCGCCGA 4895  
 Db 4939 CTTACCAAG--TCCCTCAGCAGATACGAGAGCATGCTGCGCACGGCCAGCAGCGCCGA 4995  
 Qy 4896 CAGCTCCGCTCAGCAGACCTATGATCACTCTGACCTGGAGAGTGGAGTCAAGATGTG 4955  
 Db 4996 CAGCTCGCTCGCGCAGCGCCATGATCAGCGCCGACTGGAGAGCGGCACCAAGCTGTG 5055  
 Qy 4956 GCACCTAGTGAAGAACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGT 5015  
 Db 5056 GCACCTGGTGAAGAACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGT 5115  
 Qy 5016 GGTGTCTGAATCTACTGACCGGATCTCTGGCCACTA--AGGGCACACTGCAGAGTT 5072  
 Db 5116 GGTCTGGAGATCTCTTGACCGGTACTGGCCACCAAGCAGCGGCACACTGCAGAGTT 5175  
 Qy 5073 TGTGATGACCTTTTGAACCATCTTACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGT 5132  
 Db 5176 TGTGAGCAGCTTTTGAACCATCTTACAGCAGCAGCAGCAGCAGCAGCAGCAGT 5235  
 Qy 5133 GGCATCAGTATGTTGATCTCTGATGAGCAGGCTGATAAATGAGCAGTTCATGA 5192  
 Db 5236 GGCATCAGTATGTTGATCTCTGATGAGCAGGCTGATAAATGAGCAGTTCATGA 5295  
 Qy 5193 CCGCAGCTCCGCATACCTGGAAGAGCAATT--GCCTGCCCTCAGGTTTGGGTCAA 5249  
 Db 5296 TGCTGAGTGGCCACACCTGGAAGAGCAACTGAGCCTGCCCTCAGGTTTGGGTCAA 5355  
 Qy 5250 CATGATCAAGAACCGCAGTTTGTGTTGATCTTCAATGAGCAGCAGCAGCAGCAGT 5309  
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 Db 5716 CTTGGAAGAGTGAAGCGCGCGGCGGCGGCTGCGGAGCAGCTGCGGAGCGAGTGGT 5775  
 Qy 5661 AACCTCATGAGCTTAGACAGCTGA 5685  
 Db 5776 GGACAGATGCGCTGAGCAGCTGA 5800

RESULT 6

US-10-218-779-31  
 ; Sequence 31, Application US/10218779  
 ; Publication No. US2004002922A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Edinger, Shlomit  
 ; APPLICANT: MacDougall, John  
 ; APPLICANT: Millet, Isabelle  
 ; APPLICANT: Ellerman, Karen  
 ; APPLICANT: Stone, David  
 ; APPLICANT: Gerlach, Valerie  
 ; APPLICANT: Grosse, William  
 ; APPLICANT: Alsobrook II, John  
 ; APPLICANT: Lepley, Denise  
 ; APPLICANT: Rieger, Daniel  
 ; APPLICANT: Burgess, Catherine  
 ; APPLICANT: Casman, Stacie  
 ; APPLICANT: Spytek, Kimberly  
 ; APPLICANT: Boldog, Ferenc  
 ; APPLICANT: Li, Li  
 ; APPLICANT: Padigaru, Muralidhara  
 ; APPLICANT: Mishra, Vishnu  
 ; APPLICANT: Patturajan, Meera  
 ; APPLICANT: Shenoy, Suresh  
 ; APPLICANT: Rastelli, Luca  
 ; APPLICANT: Tchernev, Velizar  
 ; APPLICANT: Vernet, Corine  
 ; APPLICANT: Zerhusen, Bryan  
 ; APPLICANT: Malyankar, Uriel  
 ; APPLICANT: Guo, Xiaojia  
 ; APPLICANT: Miller, Charles  
 ; APPLICANT: Gangolli, Bsha  
 ; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same  
 ; FILE REFERENCE: 21402-214  
 ; CURRENT APPLICATION NUMBER: US/10/218,779  
 ; CURRENT FILING DATE: 2002-08-14  
 ; PRIOR APPLICATION NUMBER: 60/253,834  
 ; PRIOR FILING DATE: 2000-11-29  
 ; PRIOR APPLICATION NUMBER: 60/250,-926  
 ; PRIOR FILING DATE: 2000-11-30  
 ; PRIOR APPLICATION NUMBER: 60/264,180  
 ; PRIOR FILING DATE: 2001-01-25  
 ; PRIOR APPLICATION NUMBER: 60/313,656  
 ; PRIOR FILING DATE: 2001-08-20  
 ; PRIOR APPLICATION NUMBER: 60/327,456  
 ; PRIOR FILING DATE: 2001-10-05  
 ; NUMBER OF SEQ ID NOS: 216  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 31  
 ; LENGTH: 5895  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-10-218-779-31

Query Match 44.5%; Score 2533.8; DB 13; Length 5895;

	Best Local Similarity	68.0%;	Pred. No. 0;	
	Matches 3812;	Conservative	0;	Mismatches 1712; Indels 81; Gaps 17;
Qy	141	CGCCGAGGGTTTCAATCACTACCTCGTGGTGGATGAGAGCAGGACACATTTACTTGGGGCC	200	
Db	217	CGACTGGGGCTCACCCACCTAGTGGTGCATGAGCAGACAGGCGAGGTGATGTGGGGCC	276	
Qy	201	CGTCAATCGGATTTACAAAGCTCTCCAGGGACCTGAAGGCTTGGTGAAGCATGACAGCAGG	260	
Db	277	AGTGAACCCGATCTATAAGCTGTGGGGAACCTGACACTGCTGCGGGCCACGTCACGGG	336	
Qy	261	GCCGACGAGGACAAACCCAAAGTGTATCCACCCCGCATGTCAGACCTGCAATGAGCC	320	
Db	337	CCCTGTGGAGGACAAAGAAAGTGTACCCGCCGCCAGCGTGCAGTCTGCCCCACCG	396	
Qy	321	CGTGACACACCAACCAATGTCAACAAGATGCTCCTCATAGACTCAAGAGAACAGGCT	380	
Db	397	CGTGGCAGTACTGACACAGCTCAACAAGCTGCTGCTGGACTATGCCGTATACCGGCT	456	
Qy	381	GATTGCTGTGGAGCGCTGTACCAAGGCATCTGCAAGCTGCTGAGCTGGAGGACCTCTT	440	
Db	457	GCTGGCTGTGGACGCGCTCCAGGGCATCTGCCAGTTCTTGGCTGTGGACGATCTCTT	516	
Qy	441	CAAGCTGGGGAGCGCTTATCATAAAGAGGAGCACTCTGTCAAGTGTCAACGAGAGCGG	500	
Db	517	CAAACTGGGTGAGCCACACACCGTAAAGAGCACTACCTGTCCAGCGTCCAGGAGCAGG	576	
Qy	501	CTCAGCTTTGGAGTGATGCTCTCTTACA-----GCAACCTGGATGAACAAGCTGTTCA	554	
Db	577	CAGCATGGCGCGCTGCTCATTTGCCGGGCCACCGGGCCAGGGCCAGGCTCTTCGT	636	
Qy	555	TGCCACGGCAGTGGATGGAAAGCCCGAGTATTTTCCACCATCTCCAGCCGGAAACTGAC	614	
Db	637	GGGACACACCCATCGATGGCAAGTCCGAGTACTTCCCACTGTCCAGCGCTCGGCTCAT	696	
Qy	615	CAAGAACTCTGAGGCGGATGGCATGTTCCGGTACGTCTTCCATGATGATGTTGGGCGTC	674	
Db	697	GGCCACAGGAGGAGTGGCCGACATGTTCCGGCTTCGTGTACCAAGATGAGTTTGTGTATC	756	
Qy	675	GATGATTAGATCCCTTCGGACACCTTCAACCATCATCCCTGACTTGTATATCTACTATGT	734	
Db	757	ACAGCTCAGATCCCTTCGGACACGCTGTCCAAGTTCGGCGCTTTTGACATCTACTATGT	816	
Qy	735	CTATGGTTTACAGTGGCACTTTGTCTACTTTTTTGACCTCCAACTGAGATGGTGTCT	794	
Db	817	GTACAGCTTCGACGAGAGCTTTGTCTACTACTCAGCTCAGCTGCAGCTAGACACAGCT	876	
Qy	795	TCCACCAAGGCTCCACACCAAGGACGAGGTATATCATCCAAAGCTGTGAGGCTTTGCAA	854	
Db	877	GACCTGCCCTGATGCGCGCGGAGCACTTCTTCAGTCCAGAATGTTGGGCTCTGTGT	936	
Qy	855	GGAGGACACAGCTTCAACTCTATGTAGAGGTGCCCATTTGGCTGTGAGCGCAGTGGGGT	914	
Db	937	GGACAGACCCCAATTTCTACTCGTACGTTGAGTTTCCCACTTGGCTCGAGCAGGGGGTGT	996	
Qy	915	GGAGTACCGCTGTGTCAGGCTGCTACCTGTCTCAAAGCGGGGGCGGTGCTTTGGCAGGAC	974	
Db	997	GGAGTACCGCTGTGTCAGGATGCTTACCTGAGCGCGCGCGGCTGCGCTTGGCCACCA	1056	
Qy	975	CTTTGGAGTCCATCCAGATGATGACTGCTCTTTCACGGCTTCTCCAGGGGCCAGAGCG	1034	
Db	1057	GCTGGGCTTGGCTGAGGACGAGGACGTGTGTTCTACTGTGTTCCGCCACGGGCCAAGAA	1116	
Qy	1035	GAATAATGAATCCCTGGATGAGTGGCGCCCTGTGCATCTTCACTTTGAAGCAGATAAATGA	1094	
Db	1117	CGCGGTGAAGCCACCAAGGAGTCAAGCACTGTGCTGTTCAAGCTCAGGGCCATCAAGGA	1176	
Qy	1095	CCGCAATTAAAGAGCGGCTGACGTCCTGTACCGGGCGAGGACAGCTGGACCTGGGCTG	1154	
Db	1177	GAAGATTAGAGCGCATCCAGTCTGCTACCGTGTGAGGGCAAGCTCTCCCTGCCGCTG	1236	
Qy	1155	GCTCAAGGTGAAGGACATCCCGCTCAGCAGTGGCGCTTTAAACCATTTGACGATAACTCTG	1214	

D	b	1237	GCTGCTCAACAAGGAGTGGGCTGTGCATCAA	CTGCCCTCGCAGATCGATGAACACTTCTG	1239	
Q	y	1215	TGCGCTGGACATGAATGCTCCCTCGGAGTGTC	CGACATGGTGGTGAATTC	1274	
D	b	1297	CGGCGAGGACTTCAACCAGCCCCTGGGGSCA	CAGTCA	1356	
Q	y	1275	CACGGAGGACAGGACCGCATGACGTCTGTCA	TGCGATATGTTCTACAAAGAACACTTCTCT	1334	
D	b	1357	CGTGGACAAGGATGATGGCTGTGACCGCGT	GGCTGTGCTATGATATCGGGCGCGCACTGT	1416	
Q	y	1335	GGCGTTTGTGGGCACCAAAAGTGGCAAGCT	TGAAGAAGATCCGGGTGGATGGACCCA----	1390	
D	b	1417	GGTATTGCGCGGCACGCGAAGTGGCCGCA	TCCGCAAGATCCTGGTGGACCTCTCAAAACC	1476	
Q	y	1391	-----GGGGCAACGCCCCCTCCAGTAT	CAGACGGTGCAGTGGTGGACCCCGGCCAGTCCCT	1445	
D	b	1477	CGGTGGCGCGCCTGCCCCTGTGCTTACGAG	ACGCTGTGTGCCAGGAGGCGACGCCCATCTCT	1536	
Q	y	1446	CCGGGATATGGCCTTCTCCAAAGCACCGA	GCACCACTCTACATATGTTCAGAGAGGCGAGCT	1505	
D	b	1537	GCAGAGACCTCGTCTCAGCCCCCAACCA	CCAGTACCTCTACGCCATGACCGAGAAGCAGGT	1596	
Q	y	1506	CACCAGAGTCCCTGTGGAGTCCGTGTGCT	CAGTATCAGAGCTGGCGGAGTGCCTTGGCTC	1565	
D	b	1597	GA	CGCGGTGCCCTGTGGAGAGCTGTGTGCAGTAC	AGTCTGTGTCTGGGTC	1656
Q	y	1566	AGCGACCCCACTGTGGCTGTGTGTGTGTG	CTGCAACAACGTGCAACCGGAAGAGCGGTG	1625	
D	b	1657	ACGGGACCCCACTGTGGCTGTGTGTCTCT	GTGCACAGCATGTGTCTCGCGCGGACGCCCTG	1716	
Q	y	1626	TGAGCGCTCAAGAGACCCCGCAGGTTTG	CTCGGAGATGGAAGCAGTGTGTCCGGGTGAC	1685	
D	b	1717	TGAGCGAGCAGACGAGCCCAACGCGCTT	GCTCGGACCTGCTGCATGTGTGTGAGTGTG	1776	
Q	y	1686	GGTCCATPCCAA	CAATATCTCCGTCTCTCAGTACAACGTGC----TGCTGGTCTGTGAGAC	1742	
D	b	1777	TGTGCAACCCGCAATGTGTCTGTCCACAT	GTGTCCAGGTCCCAAGTACTTGTGTGTGTCAGGC	1836	
Q	y	1743	GTACAATGTCCCGAGCTGTACGTGCGCT	CAACTGCACCTTTGAGACCTGTTCAGAGAT	1802	
D	b	1837	CTGGAACGTGCTGACCTCTCAGCTGGCGT	CACTGCTCCTTCGAGGACTTCACGGNATC	1896	
Q	y	1803	GGATGGGCTGGTCTGTGGGCATCAGAT	TCGATGCTACTCCCTGTGCACCGAGAGTGCC	1862	
D	b	1897	TGAGAGCGTCTGTGAGGATGGCCGGA	TCCACTGTGCGCTCACCTCCCGCGGAGGTGGC	1956	
Q	y	1863	CCGGATCA-----TCACAGAAATGGGAC	CAACCATGTGTCAGACTTCAGCTCAAAATC	1916	
D	b	1957	GCCCATCACGCGGGCCAGGTGAGGAGAC	CAGCGGTGGTGAATCTTACCTTAAGTC	2016	
Q	y	1917	AAGGAGACGGGCATGACCTTCGCAGAC	CCAGCTTGTCTTCTACAAATGCGAGCTCCA	1976	
D	b	2017	CAAGGAGACAGGAAAGATTTCGTCTGT	GTGGACTTCGTCTTCTACACTGCGAGCTGCA	2076	
Q	y	1977	CAATTGCG---TGCGTGTCTGTGGAGAGT	CTCATACCGGTGCACCTGTGTAAATACCG	2033	
D	b	2077	CCAGTCCAGCTGCTGTCTGTGTCAACG	SGCTCCTTTCTGCTTCCACTGTGTGAAAATACCG	2136	
Q	y	2034	GCATGCTGCACCCATGACCCCAAGAC	CTGCTCCTTCGAGGAGGCGGAGTGAGCTGCC	2093	
D	b	2137	CCACGTGTGCACACAAACGTGGCTGAC	TGTGCGCTTCTTCGTGAGGGCCGTGTCAACGTGTC	2196	
Q	y	2094	CGAGGACTGCCCCAGCTGTCTCGAGT	TGGAACAGATCTCTGTGSCCGCTGGAGTGTATCAA	2153	
D	b	2197	TGAGGAGTGGCCACAGATCTGTGCCCT	CCACGCGAGTCTACGTGCCAGTGGAGTGGTAAA	2256	
Q	y	2154	GCCTATCAGCTGAAGGCCAAGAACTCC	CCCCAGCCCCAGTCTGGCAGCGGTGGCTACGA	2213	
D	b	2257	ACCATCACCTGGCGCACGHAACCTG	CGCAAGCCACAGTCAGGCGACGCTGGATATGA	2316	
Q	y	2214	ATGCATCTCTCAACATTCAGGGCAG	CAGCAGGAGTGGCCCGCTCGCTTCAACAGCTC	2273	
D	b	2317	GTGCTCTTCCATATCCCGGAGACCGCG	CCCGCTGTGCAGCGCTCGCTTCAACAGCTC	2376	

QY 2274 CAGCGTACAGTGCAGAACACCTCTTATTCCTATGAGGGATGGAGATCAACAACTGCC 2333  
 Db 2377 CAGCGTGCAGTGCAGAAATTCCTCGTACTCTTACAGGGGAAAGATGTACAGCACTGCC 2436  
 QY 2334 CGTGAGTTGACAGTGCCTGTGAATGGGCACTTCAACATTTGACAAACCCAGCTCAGAAATA 2393  
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 QY 2394 AGTTACCTCTACAGTGTGAGAGCATGCTGAGAGCTGCGGCTGTGCTCAAGGCTGA 2453  
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 QY 2691 TGCGGTGAGTGCAGCGCTTACTGTGATGTGTACATCCCTGCGAGACAGATCGTGTGGA 2750  
 Db 2797 CAAGTGTCTGTGACGCTGTGTGAGAGCGAGTACATCAGTGCAGGACAGATGTGTGTGA 2856  
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 QY 3639 GCGCGCTGTGCTGT 3698  
 Db 3751 GGTGCTGTGAGT 3810  
 QY 3699 GCTCAGCTGTGCGGCGGCTGT 3758  
 Db 3811 GCTCAGCTGTGCTGT 3870  
 QY 3759 CGTGTGCTGT 3818  
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Db 4519 CCCATTGACGCCATACGGGTGAGGCACGCTACTCTCTGAGTGAGGACAAGCTCATCGG 4578  
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Db 4579 GCAGCAGATTGACTACAAAGACACTGACCCCTGAACCTGTGTGAAACCTTGAAGTGAATGC 4638  
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Db 4759 CTTGGATGGCGCCAGAGCGCGCATCTCTGCGGCGCATCTCTGCGAGACGAGCATCAACAC 4818  
Qy 4716 CAAGATTGAGAAATGATTGGAAGGACTGAACACACTGGCCCACTACCAAGTGCAGATGG 4775  
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Db 5116 GGTCTGGAGATCTTGTGACACGCTACTTGGCCACCGAGCAGGAGGAGGAGGAGGAGG 5175  
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Qy 5133 GGCATCAAGTACATGTTTGAATCTCTGATGAGCAGGCTGATTAACATGGCATTCATGA 5192  
Db 5236 GGCATCAAGTACATGTTTGAATCTCTGATGAGCAGGCTGATTAACATGGCATTCATGA 5295  
Qy 5193 CCGGACCTCGCCCATACCTGGAAGAGCAATT---GCCCTGCCCTGAGGTTTGGGTCAA 5249  
Db 5296 TGCTGACGTGGCCACACCTGGAAGAGCACTGCGAGCCTGCCCTGCTGCTGCTGAA 5355  
Qy 5250 CATGATCAAGAACCGCAGTTTGTGTTGATCATCCATAAGAACAGCATCACAGCCCTG 5309  
Db 5356 CGTATCAAGAACCCACGTTTGTGTTGATCATCCATAAGAACAGCATCACAGCCCTG 5415  
Qy 5310 CTTCTCTGTGTGCTGAGACTCTTCACTGAGTCTTGTCTCAGCTCAGAGCACCGGTGG 5369  
Db 5416 CTTGTGTGTGTGGGCCAGACCTTCATGGAATCTCTGCTCCACTCTGAGCACAAGTGG 5475  
Qy 5370 CAAGGACTCGCCCTCCACAGCTGTGTGTTGATGCGCAAGACATCCCGAGTACAGAAATG 5429  
Db 5476 CAAGGACTCAACCTCCACAGCTGTGTGTTGATGCGCAAGACATCCCGAGTACAGAAATG 5535  
Qy 5430 GGTGA---GAGGTATTACTCAGACATAGGGAAGATGCCAGCCATCAGAGCAGCAAGAT 5486  
Db 5536 GGTGAGGAGGAGGATCTATGAGACATCGCCAGATGCCAGGATGCCAGGATCAGAGGAT 5595  
Qy 5487 GAACGCATACCTGGCTGAGCAGTCCCGGATGCATGAATGAGTTCAACACCATGATGC 5546

Db 5596 GAGTGCCTATCTGGCTGAGCAGTCCCGCTGCACTGAGCCAGTTCAACAGCATGAGC 5655  
Qy 5547 ACTTCTCAGAGATCTTCTCTATGTGGGCAAAATACAGCGA-----GGAGATCTTTGGACC 5600  
Db 5656 CTTGCACGAGATCTACTCTCTACATCAACCAAGTACAAAGATGAGGTGCAGATCTTGCAGC 5715  
Qy 5601 TCTGCACCAAGATGAGCAGTGTGGGAGCAGAAACTGGCTTCAAACTAGAACTCACTCAT 5660  
Db 5716 CTTGGAGAGATGAGCAGCGCGCGGCGCAGCGGCTTCCGAGCAAGCTGAGCAGGTGT 5775  
Qy 5661 AACCTCATGAGCTTAGACAGCTGA 5685  
Db 5776 GGACAGATGGCCTGAGCAGCTGA 5800

RESULT 7  
US-10-108-260A-802  
; Sequence 802, Application US/10108260A  
; Publication No. US20040005560A1  
; GENERAL INFORMATION:  
; APPLICANT: HELIX RESEARCH INSTITUTE  
; TITLE OF INVENTION: No. US20040005560A1el full length cDNA  
; FILE REFERENCE: HI-A0106  
; CURRENT APPLICATION NUMBER: US/10/108,260A  
; CURRENT FILING DATE: 2002-03-27  
; NUMBER OF SEQ ID NOS: 5458  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 802  
; LENGTH: 3666  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-108-260A-802

Query Match 20.3%; Score 1157.8; DB 16; Length 3666;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 1159; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 4527 TGCCAAACAGCCCGAGGTCCAGTAAAGATCCCTCAACTGTGACACCATCACTCAGTCAA 4586  
Db 1 TGCCAAACAGCCCGAGGTCCAGTAAAGATCCCTCAACTGTGACACCATCACTCAGTCAA 60  
Qy 4587 GGAGAAATCTGTGATGCCATCTTCAAGATGTGCTTCTGCTCCACCGGCCCAAGCTGC 4646  
Db 61 GGAGAAATCTGTGATGCCATCTTCAAGATGTGCTTCTGCTCCACCGGCCCAAGCTGC 120  
Qy 4647 AGATATGATCTGTGATGGCGACAGGAAAGTGGGCAAGGATGATCTTGCAGGATGAAGA 4706  
Db 121 AGATATGATCTGTGATGGCGACAGGAAAGTGGGCAAGGATGATCTTGCAGGATGAAGA 180  
Qy 4707 CATCACCAAGATGAGATGATGAGAGGAGTGAACACACTGCGCCCACTACAGGT 4766  
Db 181 CATCACCAAGATGAGATGAGAGTGAAGAGGAGTGAACACACTGCGCCCACTACAGGT 240  
Qy 4767 GCCAGATGGTTCCGTGGTGGCATTAGTGTCCAAAGCAGGTGACAGCCCTATAACGCGAGTAA 4826  
Db 241 GCCAGATGGTTCCGTGGTGGCATTAGTGTCCAAAGCAGGTGACAGCCCTATAACGCGAGTAA 300  
Qy 4827 CAATCCACCGTCTCAGGACCTCAGCAAGTAAATGAAACATGATCGGTACACGGG 4886  
Db 301 CAATCCACCGTCTCAGGACCTCAGCAAGTAAATGAAACATGATCGGTACACGGG 360  
Qy 4887 CAGCCCGGACAGCCTCCGCTCAGCGACCATATGATCACTCTCTGACCTGAGAGTGGAGT 4946  
Db 361 CAGCCCGGACAGCCTCCGCTCAGCGACCATATGATCACTCTCTGACCTGAGAGTGGAGT 420  
Qy 4947 CAAGATGTGGACCTTAGTGAAGAACCAAGCAGGACGAGAGCAGAGAGGAGGAGCGGG 5006  
Db 421 CAAGATGTGGACCTTAGTGAAGAACCAAGCAGGACGAGAGCAGAGAGGAGGAGCGGG 480  
Qy 5007 GAGCAAGATGGTGTCTGAAATCTACCTGACCCGAGCTCTTGGCCACTTAAGGGCACACTGCA 5066  
Db 481 GAGCAAGATGGTGTCTGAAATCTACCTGACCCGAGCTCTTGGCCACTTAAGGGCACACTGCA 540

5067 GAAGTTTGTGGATGACCTCTTTGAGACCATCTTTCAGACGGCACACCGTGGCTCTGCCCT 5126  
Db 541 GAAGTTTGTGGATGACCTCTTTGAGACCATCTTTCAGACGGCACACCGTGGCTCTGCCCT 600  
Qy 5127 GCCCTGGCCATCAAGTACATGTTTGTGCTTCTGATGAGCAGGCTGATAAATCATGGCAT 5186  
Db 601 GCCCTGGCCATCAAGTACATGTTTGTGCTTCTGATGAGCAGGCTGATAAATCATGGCAT 660  
Qy 5187 TCATACCCGACGTCGCGCATACCTGGAAGAGCAATTCCTGCTCCCTGAGGTTTGGGT 5246  
Db 661 TCATACCCGACGTCGCGCATACCTGGAAGAGCAATTCCTGCTCCCTGAGGTTTGGGT 720  
Qy 5247 CACATGATCAAGAACCGCAGTTTGTGTTGATCCATCCATAAGAACAGCATCACAGACG 5306  
Db 721 CACATGATCAAGAACCGCAGTTTGTGTTGATCCATCCATAAGAACAGCATCACAGACG 780  
Qy 5307 CTGCTCTCTGTGTGCTCAGACCTTCATGGAATTCCTGCTCCCTGAGGTTTGGGT 5366  
Db 781 CTGCTCTCTGTGTGCTCAGACCTTCATGGAATTCCTGCTCCCTGAGGTTTGGGT 840  
Qy 5367 GGGCAAGACTCGCCCTCCACAGCTGCTGTATGCCAAGAGATGCCAGCCATCAGCGACCAAGACAT 5426  
Db 841 GGGCAAGACTCGCCCTCCACAGCTGCTGTATGCCAAGAGATGCCAGCCATCAGCGACCAAGACAT 900  
Qy 5427 TTGGGTGGAGAGGTATTACTCAGACATAGGGAAGATGCCAGCCATCAGCGACCAAGACAT 5486  
Db 901 TTGGGTGGAGAGGTATTACTCAGACATAGGGAAGATGCCAGCCATCAGCGACCAAGACAT 960  
Qy 5487 GAACGCTACCTGCTGAGCAGTCCCGATGCCATGAATGAGTTCAACACCATGATGC 5546  
Db 961 GAACGCTACCTGCTGAGCAGTCCCGATGCCATGAATGAGTTCAACACCATGATGC 1020  
Qy 5547 ACTCTCAGAGATCTTCTCTATGTTGGCAAAATCAGCGAGGAGATCTTGGACCTCTGGA 5606  
Db 1021 ACTCTCAGAGATCTTCTCTATGTTGGCAAAATCAGCGAGGAGATCTTGGACCTCTGGA 1080  
Qy 5607 CCAGTACACAGTGTGGGAAGCAAACTGGCTTCAAACTAGAACAGTCAATACCT 5666  
Db 1081 CCAGTACACAGTGTGGGAAGCAAACTGGCTTCAAACTAGAACAGTCAATACCT 1140  
Qy 5667 CATGAGCTTACAGAGCTGAGA 5687  
Db 1141 CATGAGCTTACAGAGCTGAGA 1161

RESULT 8  
US-10-245-752-91  
; Sequence 91, Application US/10245752  
; Publication No. US20030064473A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Eaton, Dan  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Smith, Victoria  
; APPLICANT: Stephan, Jean-Philippe  
; APPLICANT: Watanabe, Colin  
; APPLICANT: Wood, William  
; APPLICANT: Zhang, Zemin  
; APPLICANT: Fong, Sherman  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
; FILE REFERENCE: P3630RIC66  
; CURRENT APPLICATION NUMBER: US/10/245, 752  
; CURRENT FILING DATE: 2002-09-16  
; PRIOR APPLICATION NUMBER: 10/197942  
; PRIOR FILING DATE: 2002-07-18  
; PRIOR APPLICATION NUMBER: 60/059114  
; PRIOR FILING DATE: 1997-09-17  
; PRIOR APPLICATION NUMBER: 60/063046  
; PRIOR FILING DATE: 1997-10-24

; PRIOR APPLICATION NUMBER: 60/065027  
; PRIOR FILING DATE: 1997-11-10  
; PRIOR APPLICATION NUMBER: 60/079689  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/086478  
; PRIOR FILING DATE: 1998-05-22  
; PRIOR APPLICATION NUMBER: 60/087607  
; PRIOR FILING DATE: 1998-06-02  
; PRIOR APPLICATION NUMBER: 60/089801  
; PRIOR FILING DATE: 1998-06-18  
; PRIOR APPLICATION NUMBER: 60/090557  
; PRIOR FILING DATE: 1998-06-24  
; PRIOR APPLICATION NUMBER: 60/090689  
; PRIOR FILING DATE: 1998-06-25  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 116  
; SEQ ID NO 91  
; LENGTH: 2597  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-10-245-752-91

Query Match 13.9%; Score 793.8; DB 13; Length 2597;  
Best Local Similarity 99.7%; Pred. No. 6.3e-220; Indels 0; Gaps 0;  
Matches 795; Conservative 0; Mismatches 2;

Qy 579 CGAGTATTTTCCACCATCTCCAGCCGGAATCTCAGCAAGAACTCTCAGGCGGATGGCAT 638  
Db 1 CGAGTATTTTCCACCATCTCCAGCCGGAATCTCAGCAAGAACTCTCAGGCGGATGGCAT 60  
Qy 639 GTTCGCTACGTCCTCCATGATGATGCTGGCTCGATGATTAAGATCCCTTCGGACAC 698  
Db 61 GTTCGCTACGTCCTCCATGATGATGCTGGCTCGATGATTAAGATCCCTTCGGACAC 120  
Qy 699 CTTACCATCATCTCCGATCTTGTATCTACTATGCTCTATGTTTATAGCAGTGGCACTT 758  
Db 121 CTTACCATCATCTCCGATCTTGTATCTACTATGCTCTATGTTTATAGCAGTGGCACTT 180  
Qy 759 TGTCTACTTTTGGACCTCCAACTGATGATGCTGCTCCACAGGCTCCACCAAGCA 818  
Db 181 TGTCTACTTTTGGACCTCCAACTGATGATGCTGCTCCACAGGCTCCACCAAGCA 240  
Qy 819 GCAGGTGTATACATCAAGCTCTGAGGCTTTTGAAGGAGGACACAGCTTCACTCCTA 878  
Db 241 GCAGGTGTATACATCAAGCTCTGAGGCTTTTGAAGGAGGACACAGCTTCACTCCTA 300  
Qy 879 TGTAGAGTGGCCATTTGCTGAGCGCAGTGGGTGAGTACCCCTGCTGCGGCTGC 938  
Db 301 TGTAGAGTGGCCATTTGCTGAGCGCAGTGGGTGAGTACCCCTGCTGCGGCTGC 360  
Qy 939 CTACCTGTCCTCAAGCGGGGCGCTGCTGGCAGGACCTTTGGAGTCCATCCAGATGATGA 998  
Db 361 CTACCTGTCCTCAAGCGGGGCGCTGCTGGCAGGACCTTTGGAGTCCATCCAGATGATGA 420  
Qy 999 CCTGCTCTTCAACCGTCTTCTCAAGGGCCAGAGCGGAAATGAAATCCCTGGATGAGTC 1058  
Db 421 CCTGCTCTTCAACCGTCTTCTCAAGGGCCAGAGCGGAAATGAAATCCCTGGATGAGTC 480  
Qy 1059 GGGCTGTGATCTTCACTTGAAGCAGATAATCAGCCGATTAAGGAGCGGCTGCAGTC 1118  
Db 481 GGGCTGTGATCTTCACTTGAAGCAGATAATCAGCCGATTAAGGAGCGGCTGCAGTC 540  
Qy 1119 TTGTTACCGGGGCGAGGCGACGCTGAGACCTGGCTGGCTCAAGGTGAAGGACATCCCTG 1178  
Db 541 TTGTTACCGGGGCGAGGCGACGCTGAGACCTGGCTGGCTCAAGGTGAAGGACATCCCTG 600  
Qy 1179 CAGCAGTGGCTCTTAACCATTTGACATTAATCTTGTGGCTGGACATGAATGCTCCCT 1238  
Db 601 CAGCAGTGGCTCTTAACCATTTGACATTAATCTTGTGGCTGGACATGAATGCTCCCT 660  
Qy 1239 GGGAGTGTCCGACATGCTGCTGGAATTCCTGCTCTTCAAGGAGGAGGAGCCGATGAC 1298  
Db 661 GGGAGTGTCCGACATGCTGCTGGAATTCCTGCTCTTCAAGGAGGAGGAGCCGATGAC 720



QY 1299 GTCTGTATCGATATGCTTACAGAACCACTCTCTGCGCTTTGTGGCCACCAAAAGTGG 1358  
 DB 721 GTCCTGTATCGCATATGCTTACAGAACCACTCTCTGCGCTTTGTGGCCACCAAAAGTGG 780  
 QY 1359 CAAGCTGAAGAAGATCC 1375  
 DB 781 CAAGCTGAAGAAGTGC 797

RESULT 9

US-10-245-859-91  
 ; Sequence 91, Application US/10245859  
 ; Publication No. US2003006447A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin  
 ; APPLICANT: Baton, Dan  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Stephan, Jean-Phillippe  
 ; APPLICANT: Watanabe, Colin  
 ; APPLICANT: Wood, William  
 ; APPLICANT: Zhang, Zemin  
 ; APPLICANT: Fong, Sherman  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; FILE REFERENCE: P3620R1C78  
 ; CURRENT APPLICATION NUMBER: US/10/245,859  
 ; CURRENT FILING DATE: 2002-09-16  
 ; PRIOR APPLICATION NUMBER: 10/197942  
 ; PRIOR FILING DATE: 2002-07-18  
 ; PRIOR APPLICATION NUMBER: 60/059114  
 ; PRIOR FILING DATE: 1997-09-17  
 ; PRIOR APPLICATION NUMBER: 60/063046  
 ; PRIOR FILING DATE: 1997-10-24  
 ; PRIOR APPLICATION NUMBER: 60/065027  
 ; PRIOR FILING DATE: 1997-11-10  
 ; PRIOR APPLICATION NUMBER: 60/079689  
 ; PRIOR FILING DATE: 1998-03-27  
 ; PRIOR APPLICATION NUMBER: 60/086478  
 ; PRIOR FILING DATE: 1998-05-22  
 ; PRIOR APPLICATION NUMBER: 60/087607  
 ; PRIOR FILING DATE: 1998-06-02  
 ; PRIOR APPLICATION NUMBER: 60/089801  
 ; PRIOR FILING DATE: 1998-06-18  
 ; PRIOR APPLICATION NUMBER: 60/090557  
 ; PRIOR FILING DATE: 1998-06-24  
 ; PRIOR APPLICATION NUMBER: 60/090589  
 ; PRIOR FILING DATE: 1998-06-25  
 ; Remaining Prior Application data removed - See File Wrapper or PALM.  
 ; NUMBER OF SEQ ID NOS: 116  
 ; SEQ ID NO 91  
 ; LENGTH: 2597  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapien  
 ; US-10-245-859-91

Query Watch 13.9%; Score 793.8; DB 13; Length 2597;  
 Best Local Similarity 99.7%; Pred. No. 6.3e-220;  
 Matches 795; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 579 CGAGTATTTCCACCATCTCCAGCCGGAACCTGACCAAGAACTCTGAGCGGATGGCAT 638  
 DB 1 CGAGTATTTCCACCATCTCCAGCCGGAACCTGACCAAGAACTCTGAGCGGATGGCAT 60  
 QY 639 GTTCGGGTACGTTCTCCATGATGAGTTCGTGGCTCGATGATTAAAGATCCCTTCGGACAC 698  
 DB 61 GTTCGGGTACGTTCTCCATGATGAGTTCGTGGCTCGATGATTAAAGATCCCTTCGGACAC 120  
 QY 699 CTTCCACCATCATCCCTGACATTTGATATCTACTATGCTATGCTTTTAGCAGTGGCACTT 758

DB 121 CTTCCACATCATCCCTGACATTTGATATCTATATGCTATGTTTGTAGAGTGGCACTT 180  
 QY 759 TGTCTACTTTTGAACCTCCACCTGAGATGAGTGTCTCCACGAGGTCCACACCAAGGA 818  
 DB 181 TGTCTACTTTTGAACCTCCACCTGAGATGAGTGTCTCCACGAGGTCCACACCAAGGA 240  
 QY 819 GCAGGTGTATACATCAAGCTCGTGAAGCTTTTCAAGGAGGACACAGCCCTTCACTCCTA 878  
 DB 241 GCAGGTGTATACATCAAGCTCGTGAAGCTTTTCAAGGAGGACACAGCCCTTCACTCCTA 300  
 QY 879 TGTAGAGGTGCCCATTTGGCTGTGAGCGCAATGGGTGGAGTACCGCTGTCTGAGGTGC 938  
 DB 301 TGTAGAGGTGCCCATTTGGCTGTGAGCGCAATGGGTGGAGTACCGCTGTCTGAGGTGC 360  
 QY 939 CTACCTGTCCAAAGCGGGCGCTGTGTCGACAGCCCTTTGGAGTCCATCCAGATGATGA 998  
 DB 361 CTACCTGTCCAAAGCGGGCGCTGTGTCGACAGCCCTTTGGAGTCCATCCAGATGATGA 420  
 QY 999 CTTGCTCTTCCACCGCTCTTCTCAAGGGCCAGAGCGGAAAATGAAATCCCTGGATGATC 1058  
 DB 421 CTTGCTCTTCCACCGCTCTTCTCAAGGGCCAGAGCGGAAAATGAAATCCCTGGATGATC 480  
 QY 1059 GGGCCTGTGCATCTTTCATCTTGAAGCAGATTAATGACCCCATTAAGAGCGGTGCAGTC 1118  
 DB 481 GGGCCTGTGCATCTTTCATCTTGAAGCAGATTAATGACCCCATTAAGAGCGGTGCAGTC 540  
 QY 1119 TTGTTACCGGGCGGAGGCGACGCTGACCTGGCTGGCTCAAGGTGAAGACATCCCTG 1178  
 DB 541 TTGTTACCGGGCGGAGGCGACGCTGACCTGGCTGGCTCAAGGTGAAGACATCCCTG 600  
 QY 1179 CAGCAGTGGCTCTTAAACCATTTGACGATTAATGACGATTAATGACGATTAATGACGAT 1238  
 DB 601 CAGCAGTGGCTCTTAAACCATTTGACGATTAATGACGATTAATGACGATTAATGACGAT 660  
 QY 1239 GGGAGTGTCCGACATGGTGGCTGGAATTCCTGCTTTCACGAGGACAGGACCGCATGAC 1298  
 DB 661 GGGAGTGTCCGACATGGTGGCTGGAATTCCTGCTTTCACGAGGACAGGACCGCATGAC 720  
 QY 1299 GTCTGTATCGCATATGCTTACAGAACCACTCTCTGCGCTTTGTGGCCACCAAAAGTGG 1358  
 DB 721 GTCTGTATCGCATATGCTTACAGAACCACTCTCTGCGCTTTGTGGCCACCAAAAGTGG 780  
 QY 1359 CAAGCTGAAGAAGATCC 1375  
 DB 781 CAAGCTGAAGAAGTGC 797

RESULT 10  
 US-10-245-103-91  
 ; Sequence 91, Application US/10245103  
 ; Publication No. US20030068778A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin  
 ; APPLICANT: Baton, Dan  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Stephan, Jean-Phillippe  
 ; APPLICANT: Watanabe, Colin  
 ; APPLICANT: Wood, William  
 ; APPLICANT: Zhang, Zemin  
 ; APPLICANT: Fong, Sherman  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; FILE REFERENCE: P3630R1C112  
 ; CURRENT APPLICATION NUMBER: US/10/245,103  
 ; CURRENT FILING DATE: 2002-09-17  
 ; PRIOR APPLICATION NUMBER: 10/197942  
 ; PRIOR FILING DATE: 2002-07-18  
 ; PRIOR APPLICATION NUMBER: 60/059114

;; PRIOR FILING DATE: 1997-09-17  
;; PRIOR APPLICATION NUMBER: 60/063046  
;; PRIOR FILING DATE: 1997-10-24  
;; PRIOR APPLICATION NUMBER: 60/065027  
;; PRIOR FILING DATE: 1997-11-10  
;; PRIOR APPLICATION NUMBER: 60/079689  
;; PRIOR FILING DATE: 1998-03-27  
;; PRIOR APPLICATION NUMBER: 60/086478  
;; PRIOR FILING DATE: 1998-05-22  
;; PRIOR APPLICATION NUMBER: 60/087607  
;; PRIOR FILING DATE: 1998-06-02  
;; PRIOR APPLICATION NUMBER: 60/089801  
;; PRIOR FILING DATE: 1998-06-18  
;; PRIOR APPLICATION NUMBER: 60/090557  
;; PRIOR FILING DATE: 1998-06-24  
;; PRIOR APPLICATION NUMBER: 60/090689  
;; PRIOR FILING DATE: 1998-06-25  
;; Remaining Prior Application data removed - See File Wrapper or PALM.  
;; NUMBER OF SEQ ID NOS: 116  
;; SEQ ID NO 91  
;; LENGTH: 2597  
;; TYPE: DNA  
;; ORGANISM: Homo Sapien  
US-10-245-103-91

Query Match  
Best Local Similarity 99.7%; Score 793.8; DB 15; Length 2597;  
Matches 795; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 579 CGAGTATTTCCACCATCTCCAGCGGAACTGACCAAGAACTCTGAGCGGATGGCAT 638  
Db 1 CGAGTATTTCCACCATCTCCAGCGGAACTGACCAAGAACTCTGAGCGGATGGCAT 60

QY 639 GTTCGGTAGCTTTCCATGATGAGTTCTGCGGCTCGATTAAGATCCCTTCGGACAC 698  
Db 61 GTTCGGTAGCTTTCCATGATGAGTTCTGCGGCTCGATTAAGATCCCTTCGGACAC 120

QY 699 CTTCCACCATCATCCCTGACTTTGATATCTACTATGCTATGCTTTAGCAGTGGCACTT 758  
Db 121 CTTCCACCATCATCCCTGACTTTGATATCTACTATGCTATGCTTTAGCAGTGGCACTT 180

QY 759 TGTCTACTTTTGGACCTCCAACTGAGATGGTGTCTCCACAGGCTCCACCAAGGA 818  
Db 181 TGTCTACTTTTGGACCTCCAACTGAGATGGTGTCTCCACAGGCTCCACCAAGGA 240

QY 819 GCAGGTGTATACATCCAACTGAGGCTTTGCAAGGAGGACACAGCTTCAACTCTTA 878  
Db 241 GCAGGTGTATACATCCAACTGAGGCTTTGCAAGGAGGACACAGCTTCAACTCTTA 300

QY 879 TGTAGAGGTGCCATTTGGCTGTGAGCGCAGTGGGCTGAGTACCGCTGCTGAGGCTGC 938  
Db 301 TGTAGAGGTGCCATTTGGCTGTGAGCGCAGTGGGCTGAGTACCGCTGCTGAGGCTGC 360

QY 939 CTACTGTTCAAAGCGGGGCGCTGCTTGGCAGACCCCTTGGAGTCCATCCAGATGATGA 998  
Db 361 CTACTGTTCAAAGCGGGGCGCTGCTTGGCAGACCCCTTGGAGTCCATCCAGATGATGA 420

QY 999 CTTGCTCTTCCACCTGCTTCTCCAAAGGCGCAGAGCGGAAATGAATCCCTTGGATGATC 1058  
Db 421 CTTGCTCTTCCACCTGCTTCTCCAAAGGCGCAGAGCGGAAATGAATCCCTTGGATGATC 480

QY 1059 GGCCCTGTGCACTTTCTTGAAGCAGATAAATGACCGCATTAAGAGCGGCTGCAGTC 1118  
Db 481 GGCCCTGTGCACTTTCTTGAAGCAGATAAATGACCGCATTAAGAGCGGCTGCAGTC 540

QY 1119 TTGTTTACCGGGGCGAGGCGAGCTGGACCTGGCTGGCTCAAGTGAAGGACATCCCTTG 1178  
Db 541 TTGTTTACCGGGGCGAGGCGAGCTGGACCTGGCTGGCTCAAGTGAAGGACATCCCTTG 600

QY 1179 CAGCAGTGCCTTTAAACCATTTGACGATACTTCTGTGGCTTGGACATGAATGCTCCCT 1238  
Db 601 CAGCAGTGCCTTTAAACCATTTGACGATACTTCTGTGGCTTGGACATGAATGCTCCCT 660

QY 1239 GGGAGTGTCCGACATGCTGGTGAATTCGGCTTTCACGGAGCAGGACCGCATGAC 1298  
Db 661 GGGAGTGTCCGACATGCTGGTGAATTCGGCTTTCACGGAGCAGGACCGCATGAC 720

QY 1299 GTCTGTATCGCATATGCTTACAGAAACCACTCTCTGGCCCTTTGTGGGACCAAAAGTGG 1358  
Db 721 GTCTGTATCGCATATGCTTACAGAAACCACTCTCTGGCCCTTTGTGGGACCAAAAGTGG 780

QY 1359 CAAGCTGAAGAGATCC 1375  
Db 781 CAAGCTGAAGAGATGC 797

RESULT 11  
US-10-245-107-91  
; Sequence 91, Application US/10245107  
; Publication No. US20030068779A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Eaton, Dan  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Smith, Victoria  
; APPLICANT: Stephan, Jean-Phillippe  
; APPLICANT: Watanabe, Colin  
; APPLICANT: Wood, William  
; APPLICANT: Zhang, Zemin  
; APPLICANT: Fong, Sherman  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P3630R1C71  
; CURRENT APPLICATION NUMBER: US/10/245,107  
; CURRENT FILING DATE: 2002-09-16  
; PRIOR APPLICATION NUMBER: 10/197942  
; PRIOR FILING DATE: 2002-07-18  
; PRIOR APPLICATION NUMBER: 60/059114  
; PRIOR FILING DATE: 1997-09-17  
; PRIOR APPLICATION NUMBER: 60/063046  
; PRIOR FILING DATE: 1997-10-24  
; PRIOR APPLICATION NUMBER: 60/065027  
; PRIOR FILING DATE: 1997-11-10  
; PRIOR APPLICATION NUMBER: 60/079689  
; PRIOR FILING DATE: 1998-03-27  
; PRIOR APPLICATION NUMBER: 60/086478  
; PRIOR FILING DATE: 1998-05-22  
; PRIOR APPLICATION NUMBER: 60/087607  
; PRIOR FILING DATE: 1998-06-02  
; PRIOR APPLICATION NUMBER: 60/089801  
; PRIOR FILING DATE: 1998-06-18  
; PRIOR APPLICATION NUMBER: 60/090557  
; PRIOR FILING DATE: 1998-06-24  
; PRIOR APPLICATION NUMBER: 60/090689  
; PRIOR FILING DATE: 1998-06-25  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 116  
; SEQ ID NO 91  
; LENGTH: 2597  
; TYPE: DNA  
; ORGANISM: Homo Sapien  
US-10-245-107-91

Query Match  
Best Local Similarity 99.7%; Score 793.8; DB 15; Length 2597;  
Matches 795; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 579 CGAGTATTTCCACCATCTCCAGCGGAACTGACCAAGAACTCTGAGCGGATGGCAT 638  
Db 1 CGAGTATTTCCACCATCTCCAGCGGAACTGACCAAGAACTCTGAGCGGATGGCAT 60

QY 639 GTTCGGTAGCTTTCCATGATGAGTTCTGCGGCTCGATTAAGATCCCTTCGGACAC 698

RESULT 12  
US-10-245-143-91  
; Sequence 91, Application US/10245143  
; Publication No. US20030068780A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin  
; APPLICANT: Eaton, Dan  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin  
; APPLICANT: Smith, Victoria  
; APPLICANT: Stephan, Jean-Phillippe  
; APPLICANT: Watande, Colin  
; APPLICANT: Wood, William  
; APPLICANT: Zhang, Zemin  
; APPLICANT: Fong, Sherman  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
; FILE REFERENCE: P3630R1C90  
; CURRENT APPLICATION NUMBER: US/10/245,143  
; CURRENT FILING DATE: 2002-09-16

/	PRIOR APPLICATION NUMBER:	10/197942
/	PRIOR FILING DATE:	2002-07-18
/	PRIOR APPLICATION NUMBER:	60/059114
/	PRIOR FILING DATE:	1997-09-17
/	PRIOR APPLICATION NUMBER:	60/063046
/	PRIOR FILING DATE:	1997-10-24
/	PRIOR APPLICATION NUMBER:	60/065027
/	PRIOR FILING DATE:	1997-11-10
/	PRIOR APPLICATION NUMBER:	60/079689
/	PRIOR FILING DATE:	1998-03-27
/	PRIOR APPLICATION NUMBER:	60/086478
/	PRIOR FILING DATE:	1998-05-22
/	PRIOR APPLICATION NUMBER:	60/087607
/	PRIOR FILING DATE:	1998-06-02
/	PRIOR APPLICATION NUMBER:	60/089801
/	PRIOR FILING DATE:	1998-06-18
/	PRIOR APPLICATION NUMBER:	60/090557
/	PRIOR FILING DATE:	1998-06-24
/	PRIOR APPLICATION NUMBER:	60/090689
/	PRIOR FILING DATE:	1998-06-25
/	Retaining Prior Application data removed - See File Wrapper or PALM.	
/	NUMBER OF SEQ ID NOS:	116
/	SEQ ID NO	91
/	LENGTH:	2597
/	TYPE:	DNA
/	ORGANISM:	Homo Sapien
/	US-10-245-143-91	
	Query Match	13.9%; Score 793.8; DB 15; Length 2597;
	Best Local Similarity	59.7%; Pred.No. 6.3e-22;
	Matches 795; Conservative	0; Mismatches 2; Indels 0; Gaps 0;
QY	579	CGAGTATTTTCCACCATCTCCAGCCGGAAACTGACCAAGAACCTCTGAGCGGATGGCAT 638
DB	1	CGAGTATTTTCCACCATCTCCAGCCGGAAACTGACCAAGAACCTCTGAGCGGATGGCAT 60
QY	639	GTTCCGGTAGCATTTCATGATGAGTTCGTGCCTCGATGATTAGATGCCCTTCGGACAC 698
DB	61	GTTCCGGTAGCATTTCATGATGAGTTCGTGCCTCGATGATTAGATGCCCTTCGGACAC 120
QY	699	CITTCACCATCATCCCTGACTTTTGATACTACTATGCTCTATGTTTTAGCAGTGGCAAATT 758
DB	121	CITTCACCATCATCCCTGACTTTTGATACTACTATGCTCTATGTTTTAGCAGTGGCAAATT 180
QY	759	TGTCTACTTTTTGACCCCTCCAACTGAGATGTTGTCTCCACAGGCTCCACCACCAAGA 818
DB	181	TGTCTACTTTTTGACCCCTCCAACTGAGATGTTGTCTCCACAGGCTCCACCACCAAGA 240
QY	819	GCAGGTGTATACATCCAAGCTCGTAGGCTTTGCAAGGAGGACACAGGCTTCAACTCTTA 878
DB	241	GCAGGTGTATACATCCAAGCTCGTAGGCTTTGCAAGGAGGACACAGGCTTCAACTCTTA 300
QY	879	TGTAGAGTGGCCATTTGGCTGTGAGCGCAGTGGGGTGGAGTACCCCTGTCTCAGGCTGC 938
DB	301	TGTAGAGTGGCCATTTGGCTGTGAGCGCAGTGGGGTGGAGTACCCCTGTCTCAGGCTGC 360
QY	939	CTACCTGTCCAAAGCGGGGGCGTGTCTGGCAGGACCCCTTGAGTCCATCCAGATGATGA 998
DB	361	CTACCTGTCCAAAGCGGGGGCGTGTCTGGCAGGACCCCTTGAGTCCATCCAGATGATGA 420
QY	999	CCTGCTCTTTACCGTCTTCTCCAAAGGCGCAGAACGGAATAAATCCCTGGATGAGTC 1058
DB	421	CCTGCTCTTTACCGTCTTCTCCAAAGGCGCAGAACGGAATAAATCCCTGGATGAGTC 480
QY	1059	GGCCCTGTGCATCTTTCATCTTGAACGAGTAAATGACCGCATTAAGGAGCGGCTGCAGTC 1118
DB	481	GGCCCTGTGCATCTTTCATCTTGAACGAGTAAATGACCGCATTAAGGAGCGGCTGCAGTC 540
QY	1119	TTGTTTACCGGGCGAGGGCACCGCTGGACCTGGCCCTGGCTCAAGGTTGAAGGACATCCCCTG 1178
DB	541	TTGTTTACCGGGCGAGGGCACCGCTGGACCTGGCCCTGGCTCAAGGTTGAAGGACATCCCCTG 600
QY	1179	CACGAGTGGCTCTTTAACCATGACGATAAATCTCTGTGSCCTGGACATGAATGCTCCCCCT 1238

Db 601 CAGCAGTGGCTCTTTAAACCATGAGATAAATCTTGTGGCTGGACATGAATGCTCCCT 660  
 Qy 1239 GGGAGTGTCCGACATGGTGGGAAATCCCTCTTACGGAGGACAGGACCGCATGAC 1298  
 Db 661 GGGAGTGTCCGACATGGTGGGAAATCCCTCTTACGGAGGACAGGACCGCATGAC 720  
 Qy 1299 GTCTGTATCGCATATGTTCTAAGAAACCATCTCTGTGGCTTTGTGGGACCAAAAGTGG 1358  
 Db 721 GTCTGTATCGCATATGTTCTAAGAAACCATCTCTGTGGCTTTGTGGGACCAAAAGTGG 780  
 Qy 1359 CAAGCTGAAGAAGATCC 1375  
 Db 781 CAAGCTGAAGAAGTGC 797

RESULT 13  
 US-10-245-771-91  
 ; Sequence 91, Application US/10245771  
 ; Publication No. US20030068781A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin  
 ; APPLICANT: Eaton, Dan  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Stephan, Jean-Phillippe  
 ; APPLICANT: Watanabe, Colin  
 ; APPLICANT: Wood, William  
 ; APPLICANT: Zhang, Zemin  
 ; APPLICANT: Fong, Sherman  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; TITLE OF INVENTION: ACIDS ENCODING THE SAME  
 ; FILE REFERENCE: P3630R1C98  
 ; CURRENT APPLICATION NUMBER: US/10/245,771  
 ; CURRENT FILING DATE: 2002-09-16  
 ; PRIOR APPLICATION NUMBER: 10/197942  
 ; PRIOR FILING DATE: 2002-07-18  
 ; PRIOR APPLICATION NUMBER: 60/059114  
 ; PRIOR FILING DATE: 1997-09-17  
 ; PRIOR APPLICATION NUMBER: 60/063046  
 ; PRIOR FILING DATE: 1997-10-24  
 ; PRIOR APPLICATION NUMBER: 60/065027  
 ; PRIOR FILING DATE: 1997-11-10  
 ; PRIOR APPLICATION NUMBER: 60/079689  
 ; PRIOR FILING DATE: 1998-03-27  
 ; PRIOR APPLICATION NUMBER: 60/086478  
 ; PRIOR FILING DATE: 1998-05-22  
 ; PRIOR APPLICATION NUMBER: 60/087607  
 ; PRIOR FILING DATE: 1998-06-02  
 ; PRIOR APPLICATION NUMBER: 60/089801  
 ; PRIOR FILING DATE: 1998-06-18  
 ; PRIOR APPLICATION NUMBER: 60/090557  
 ; PRIOR FILING DATE: 1998-06-24  
 ; PRIOR APPLICATION NUMBER: 60/090689  
 ; PRIOR FILING DATE: 1998-06-25  
 ; Remaining Prior Application data removed - See File Wrapper or PALM.  
 ; NUMBER OF SEQ ID NOS: 116  
 ; SEQ ID NO 91  
 ; LENGTH: 2597  
 ; TYPE: DNA  
 ; ORGANISM: Homo Sapien  
 US-10-245-771-91

Query Match 13.9%; Score 793.8; DB 15; Length 2597;  
 Best Local Similarity 99.7%; Pred. No. 6.3e-220;  
 Matches 795; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 579 CGAGTATTTCCACCATCTCCAGCCGGAACCTGACCAAGAACTCTGAGCGGATGGCAT 638  
 Db 1 CGAGTATTTCCACCATCTCCAGCCGGAACCTGACCAAGAACTCTGAGCGGATGGCAT 60

Qy 639 GTTCGGGTAGTCTTCCATGATGAGTTCGTGGCTCGATGATTAAGATCCCTTCGGACAC 698  
 Db 61 GTTCGGGTAGTCTTCCATGATGAGTTCGTGGCTCGATGATTAAGATCCCTTCGGACAC 120  
 Qy 699 CTTACACATCATCCCTGACATGATATCTACTATGCTATGTTTGTAGCAGTGGCACTT 758  
 Db 121 CTTACACATCATCCCTGACATGATATCTACTATGCTATGTTTGTAGCAGTGGCACTT 180  
 Qy 759 TGTCTACTTTTGTACCCCTCCAACTGAGATGAGTTCCTCCACAGGCTCCACCAAGGA 818  
 Db 181 TGTCTACTTTTGTACCCCTCCAACTGAGATGAGTTCCTCCACAGGCTCCACCAAGGA 240  
 Qy 819 GCAGGTGTATACATCAAGCTCGTAGGCTTTCGAGGAGGACACAGCTTCAACTCCTA 878  
 Db 241 GCAGGTGTATACATCAAGCTCGTAGGCTTTCGAGGAGGACACAGCTTCAACTCCTA 300  
 Qy 879 TGTAGAGGTGCCCATTTGGCTGTGAGCGCAGTGGGGTGGAGTACCGCTGCTGCAGAGTGC 938  
 Db 301 TGTAGAGGTGCCCATTTGGCTGTGAGCGCAGTGGGGTGGAGTACCGCTGCTGCAGAGTGC 360  
 Qy 939 CTACCTGTCCAAAGCGGGGCGCTGTGAGCGCAGTGGGGTGGAGTACCGCTGCTGCAGATGA 998  
 Db 361 CTACCTGTCCAAAGCGGGGCGCTGTGAGCGCAGTGGGGTGGAGTACCGCTGCTGCAGATGA 420  
 Qy 999 CTTGCTCTTCCACCGTCTTCTCCAAAGCGGCGAAGCGGAAATGAAATCCCTGGATGAGTC 1058  
 Db 421 CTTGCTCTTCCACCGTCTTCTCCAAAGCGGCGAAGCGGAAATGAAATCCCTGGATGAGTC 480  
 Qy 1059 GGGCTGTGATCTTCACTTTGAAAGCAGATAAATGACCGATTAAGAGCGGCTGCAGTC 1118  
 Db 481 GGGCTGTGATCTTCACTTTGAAAGCAGATAAATGACCGATTAAGAGCGGCTGCAGTC 540  
 Qy 1119 TTGTTACGGGGGAGGGGACGCTGGACCTGGCTGGCTCAAGGTGAAGACATCCCTG 1178  
 Db 541 TTGTTACGGGGGAGGGGACGCTGGACCTGGCTGGCTCAAGGTGAAGACATCCCTG 600  
 Qy 1179 CAGCAGTGGCTCTTAAACATGACGATAAATCTTGTGGCTGGAATGCTCCCT 1238  
 Db 601 CAGCAGTGGCTCTTAAACATGACGATAAATCTTGTGGCTGGAATGCTCCCT 660  
 Qy 1239 GGGAGTGTCCGACATGGTGGGAAATCCCTCTTACGGAGGACAGGACCGCATGAC 1298  
 Db 661 GGGAGTGTCCGACATGGTGGGAAATCCCTCTTACGGAGGACAGGACCGCATGAC 720  
 Qy 1299 GTCTGTATCGCATATGTTCTAAGAAACCATCTCTGTGGCTTTGTGGGACCAAAAGTGG 1358  
 Db 721 GTCTGTATCGCATATGTTCTAAGAAACCATCTCTGTGGCTTTGTGGGACCAAAAGTGG 780  
 Qy 1359 CAAGCTGAAGAAGATCC 1375  
 Db 781 CAAGCTGAAGAAGTGC 797

RESULT 14  
 US-10-245-851-91  
 ; Sequence 91, Application US/10245851  
 ; Publication No. US20030068782A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Baker, Kevin  
 ; APPLICANT: Eaton, Dan  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin  
 ; APPLICANT: Smith, Victoria  
 ; APPLICANT: Stephan, Jean-Phillippe  
 ; APPLICANT: Watanabe, Colin  
 ; APPLICANT: Wood, William  
 ; APPLICANT: Zhang, Zemin  
 ; APPLICANT: Fong, Sherman  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; TITLE OF INVENTION: ACIDS ENCODING THE SAME

FILE REFERENCE: P3630R1C93  
CURRENT APPLICATION NUMBER: US/10/245,851  
CURRENT FILING DATE: 2002-09-16  
PRIOR APPLICATION NUMBER: 10/197942  
PRIOR FILING DATE: 2002-07-18  
PRIOR APPLICATION NUMBER: 60/059114  
PRIOR FILING DATE: 1997-09-17  
PRIOR APPLICATION NUMBER: 60/063046  
PRIOR FILING DATE: 1997-10-24  
PRIOR APPLICATION NUMBER: 60/065027  
PRIOR FILING DATE: 1997-11-10  
PRIOR APPLICATION NUMBER: 60/079689  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/090557  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/086478  
PRIOR FILING DATE: 1998-05-22  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/089801  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/090557  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090689  
PRIOR FILING DATE: 1998-06-25  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 116  
SEQ ID NO 91  
LENGTH: 2597  
TYPE: DNA  
ORGANISM: Homo Sapien  
US-10-245-851-91  
Query Match  
Best Local Similarity 13.9%; Score 793.8; DB 15; Length 2597;  
Matches 795; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 579 CGAGTATTTTCCCACTCCAGCGGAACTGACCAAGAACTCTGAGGGGATGTCAT 638  
DB 1 CGAGTATTTTCCCACTCTCCAGCGGAACTGACCAAGAACTCTGAGGGGATGTCAT 60  
QY 639 GTTCGCTAGCTTTCCCAAGTATGATTCGTGGCTCGATGATTAAGATCCCTTCGACAC 698  
DB 61 GTTCGCTAGCTTTCCCAAGTATGATTCGTGGCTCGATGATTAAGATCCCTTCGACAC 120  
QY 699 CTTACCACTATCCCTGACTTTGATATCTATGCTATGCTATGCTTTTACGATGCACTT 758  
DB 121 CTTACCACTATCCCTGACTTTGATATCTATGCTATGCTATGCTTTTACGATGCACTT 180  
QY 759 TGTCTACTTTTGGACCTCCAACTGAGATGGTGTCTCCACAGGCTCCACCAAGGA 818  
DB 181 TGTCTACTTTTGGACCTCCAACTGAGATGGTGTCTCCACAGGCTCCACCAAGGA 240  
QY 819 GCAGTGTATACATCCAACTGCTGAGGCTTTGCAAGGAGCACACAGCTTCACTCCTA 878  
DB 241 GCAGTGTATACATCCAACTGCTGAGGCTTTGCAAGGAGCACACAGCTTCACTCCTA 300  
QY 879 TGTAGAGTGGCCATTGGCTGTGAGCGGAGTGGGTGAGTACCGCTGTGCGAGGCTGC 938  
DB 301 TGTAGAGTGGCCATTGGCTGTGAGCGGAGTGGGTGAGTACCGCTGTGCGAGGCTGC 360  
QY 939 CTACCTGTCCAAAGCGGGGCGCTGTTGGCAGGACCTTTGAGTCCATCCAGATGATGA 998  
DB 361 CTACCTGTCCAAAGCGGGGCGCTGTTGGCAGGACCTTTGAGTCCATCCAGATGATGA 420  
QY 999 CTTGCTCTTCCAGCTTCTTCCAAAGCGGAGGCGGAAATGAAATCCCTGGATGACTC 1058  
DB 421 CTTGCTCTTCCAGCTTCTTCCAAAGCGGAGGCGGAAATGAAATCCCTGGATGACTC 480  
QY 1059 GGCCCTGTGATCTTTCACTTTGAAGCAGATTAATGACCGCATTAAGGAGCGGCTGCACTC 1118  
DB 481 GGCCCTGTGATCTTTCACTTTGAAGCAGATTAATGACCGCATTAAGGAGCGGCTGCACTC 540  
QY 1119 TTGTTACCGGGGAGGCGGACCGCTGACCTGGCTCGCTTCAAGGTGAAGGACATCCCTCG 1178

DB 541 TTGTTACCGGGGAGGCGGACCGTGGACCTGGCCTGGCTCAAGGTGAAGGACATCCCTCG 600  
QY 1179 CAGCAGTGGCTCTTTAAACCATGACATACTTCTGTGGCTGGACATGATGCTCCCT 1238  
DB 601 CAGCAGTGGCTCTTTAAACCATGACATACTTCTGTGGCTGGACATGATGCTCCCT 660  
QY 1239 GGGAGTGTCCGACATGCTGGTGGAAATCCCGTCTTCAAGGAGGACAGGACCGCATGAC 1298  
DB 661 GGGAGTGTCCGACATGCTGGTGGAAATCCCGTCTTCAAGGAGGACAGGACCGCATGAC 720  
QY 1299 GTCTGTCTCATGATATGCTCAAGAACCACTCTCTGTGGCTTTGTGGCACCACAAAGTGG 1358  
DB 721 GTCTGTCTCATGATATGCTCAAGAACCACTCTCTGTGGCTTTGTGGCACCACAAAGTGG 780  
QY 1359 CAAGCTGAAGAAGATCC 1375  
DB 781 CAAGCTGAAGAAGTGC 797  
RESULT 15  
US-10-245-883-91  
Sequence 91, Application US/10245883  
Publication No. US20030068783A1  
GENERAL INFORMATION:  
APPLICANT: Baker, Kevin  
APPLICANT: Eaton, Dan  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Goddard, Audrey  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin  
APPLICANT: Smith, Victoria  
APPLICANT: Stephan, Jean-Philippe  
APPLICANT: Matambe, Colin  
APPLICANT: Wood, William  
APPLICANT: Zhang, Zemin  
APPLICANT: Fong, Sherman  
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
ACIDS ENCODING THE SAME  
FILE REFERENCE: P3630R1C70  
CURRENT APPLICATION NUMBER: US/10/245,883  
CURRENT FILING DATE: 2002-09-16  
PRIOR APPLICATION NUMBER: 10/197942  
PRIOR FILING DATE: 2002-07-18  
PRIOR APPLICATION NUMBER: 60/059114  
PRIOR FILING DATE: 1997-09-17  
PRIOR APPLICATION NUMBER: 60/063046  
PRIOR FILING DATE: 1997-10-24  
PRIOR APPLICATION NUMBER: 60/065027  
PRIOR FILING DATE: 1997-11-10  
PRIOR APPLICATION NUMBER: 60/079689  
PRIOR FILING DATE: 1998-03-27  
PRIOR APPLICATION NUMBER: 60/086478  
PRIOR FILING DATE: 1998-05-22  
PRIOR APPLICATION NUMBER: 60/087607  
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PRIOR APPLICATION NUMBER: 60/089801  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/090557  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090689  
PRIOR FILING DATE: 1998-06-25  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 116  
SEQ ID NO 91  
LENGTH: 2597  
TYPE: DNA  
ORGANISM: Homo Sapien  
US-10-245-883-91

Query Match 13.9%; Score 793.8; DB 15; Length 2597;  
Best Local Similarity 99.7%; Pred. No. 6.3e-220;  
Matches 795; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 579 CGAGTATTTTCCGACCATCTCCAGCCGGAACTGACCAAGAACTCTGAGCGGATGGCAT 638  
Db 1 CGAGTATTTTCCGACCATCTCCAGCCGGAACTGACCAAGAACTCTGAGCGGATGGCAT 60  
QY 639 GTTCGGGTACGTCCTCCATCATGAGTTCCGTGGCTCGATGATTAAGATCCCTTCGGACAC 698  
Db 61 GTTCGGGTACGTCCTCCATCATGAGTTCCGTGGCTCGATGATTAAGATCCCTTCGGACAC 120  
QY 699 CTTACCATCATCCCTGACCTTTGATATCTACTATGTCTATGTTTGTAGAGTGGCACTT 758  
Db 121 CTTACCATCATCCCTGACCTTTGATATCTACTATGTCTATGTTTGTAGAGTGGCACTT 180  
QY 759 TGTCTACTTTTGAACCTCCAACTCAGATGGTCTCCACCAAGGCTCCACCAAGGA 818  
Db 181 TGTCTACTTTTGAACCTCCAACTCAGATGGTCTCCACCAAGGCTCCACCAAGGA 240  
QY 819 GCAGGTGTATACATCCAGCTGTGAGGCTTTGCAAGAGAGACACAGCCTTCAACTCCTA 878  
Db 241 GCAGGTGTATACATCCAGCTGTGAGGCTTTGCAAGAGAGACACAGCCTTCAACTCCTA 300  
QY 879 TGTAGAGTGGCCCATTTGGCTGTGAGCGCAGTGGGGTGGAGTACCGCTCTGCAGGCTGC 938  
Db 301 TGTAGAGTGGCCCATTTGGCTGTGAGCGCAGTGGGGTGGAGTACCGCTCTGCAGGCTGC 360  
QY 939 CTAACCTGTCCAAAGCGGGGCGGTGTGGCAGGACCTTGGAGTCCATCCAGATGATGA 998  
Db 361 CTAACCTGTCCAAAGCGGGGCGGTGTGGCAGGACCTTGGAGTCCATCCAGATGATGA 420  
QY 999 CTTGCTCTTCCACCGTCTTCTCCAAAGCGGCGGAAATGAAATCCCTGATGAGTC 1058  
Db 421 CTTGCTCTTCCACCGTCTTCTCCAAAGCGGCGGAAATGAAATCCCTGATGAGTC 480  
QY 1059 GGCCCTGTGCATCTTCACTTTGAAGCAGATAAATGACCCCATTAAGGAGCGGCTGCAGTC 1118  
Db 481 GGCCCTGTGCATCTTCACTTTGAAGCAGATAAATGACCCCATTAAGGAGCGGCTGCAGTC 540  
QY 1119 TTGTTACCGGGGAGGCGACGCTGGACCTGGCTGGCTCAAGGTGAAGGACATCCCTG 1178  
Db 541 TTGTTACCGGGGAGGCGACGCTGGACCTGGCTGGCTCAAGGTGAAGGACATCCCTG 600  
QY 1179 CAGCAGTGGCTCTTAACCATTCACGATAAATCTTGTGGCTGGACATGAATGCTCCCT 1238  
Db 601 CAGCAGTGGCTCTTAACCATTCACGATAAATCTTGTGGCTGGACATGAATGCTCCCT 660  
QY 1239 GGGAGTGTCCGACATGGTGGTGGATTCCTGCTTTCAGGAGGACAGGAGCGCATGAC 1298  
Db 661 GGGAGTGTCCGACATGGTGGTGGATTCCTGCTTTCAGGAGGACAGGAGCGCATGAC 720  
QY 1299 GTCTGTATCGCATATGCTTACAAAGAACCACTCTCTGGCTTTGTGGGACCAAAAGTGG 1358  
Db 721 GTCTGTATCGCATATGCTTACAAAGAACCACTCTCTGGCTTTGTGGGACCAAAAGTGG 780  
QY 1359 CAAGCTGAGAGATCC 1375  
Db 781 CAAGCTGAGAGGTGC 797

Search completed: May 23, 2004, 11:33:54  
Job time : 1479 secs





; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US06/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 170  
; LENGTH: 552  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-907-794A-170

Query Match 13.5%; Score 1351.5; DB 4; Length 552;  
Best Local Similarity 51.6%; Pred. No. 8.4e-113;  
Matches 269; Conservative 81; Mismatches 116; Indels 55; Gaps 8;  
QY 23 STLLTRQAPLSPKOR-----SFVTFRCPEAE- 49  
DB 45 SRLLT--AAPLSVEQWPRALEVDSRVLLSVVLLAPPAGMPQSFTHSENWD 102  
QY 50 GFNLVVDERTGHIYLGAVNRNRYKLSGLKVLVTHETGDEDNPKYPRIVQTCNEPIT 109  
DB 103 TFNHLTVHQGTGAVYVGAIRNRYKLTGNTLIQVAHKTGPEEDNKSRYPLIVQPCSEVLT 162  
QY 110 TTNVNVKLLIDYKENELIACGSLYOGICKLLEDFLKLGEYPYKHKEHYLSGVNESGSV 169  
DB 163 LTNVNVKLLIDYSENRLLACGSLYOGVCKLLRDLDFILVEPSHKHEHYLSVNVKTGM 222  
QY 170 FGIVSVSNDDKLFATAYDGRPEYFPTTSSRKLTKNSEADGMFAIVFHDFFVSMIKI 229  
DB 223 YGVIVRSEGBDKLFGTAVDGKQDYFPTLSSRKLPRDPRESSAMLDYELHSDVSSLIKI 282  
QY 230 PSDTFIIPFDIYVYVGFSSGNFVFLTLOPEWSPPG---STTKEQVYTSKLVRLCKE 286  
DB 283 PSDTALVSHFDIFYIYGFASGFGVFLTVQPE--TPEGVAINASGDLFTYTRIVRLCKD 340  
QY 287 DTAFNSVVEVPICGERSGVEYRLLQAAVLSKAGAVLGRITLGVHPDDLLFTVPSKGQKK 346  
DB 341 DPKFHSVSLPFGCTRAGVEYRLLQAAVLSKAGAVLGRITLGVHPDDLLFTVPSKGQKK 400  
QY 347 MKSLDESALCIFILKQINDRIKRLQSCYRGEGTLDLAKVKVDIPCCSGALLTIDNFCG 406  
DB 401 HHPDDSDALCAFTIRAINLQIKERLQSCYRGEGTLDLAKVKVDIPCCSGALLTIDNFCG 460  
QY 407 LDMNAPLGVSDMYRGIPVFTEDDRMTSVIAYVYKXHSIAFVCTKSGKLLKRVDPGRN 466  
DB 461 LDINQPLGGTPEGLTLYTSRDMTSVASYVYNGYSVVFVGTGSKGKKRVV----- 514  
QY 467 ALOYE-----TVQVVDPGVPLRDMAPSK-DHEQLYIMSERQ 501  
DB 515 ---YFRCNAIHLLSKESLLEGSYWMRFNRYQLYFLGEOR 552

RESULT 2  
US-09-905-125A-170  
; Sequence 170, Application US/09905125A  
; Patent No. 6664376  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.

; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/905.125A  
; CURRENT FILING DATE: 2001-07-12  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 170  
; LENGTH: 552  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-905-125A-170

Query Match 13.5%; Score 1351.5; DB 4; Length 552;  
Best Local Similarity 51.6%; Pred. No. 8.4e-113;  
Matches 269; Conservative 81; Mismatches 116; Indels 55; Gaps 8;

QY 23 STLTROPAPLSQOKR-----SFVTRGEPAE- 49  
Db 45 SRLLT--AAPLSMEQRPWRALEVDSSRVLLSVVLLAPPAAQMPQSTFHSNRDW 102  
QY 50 GFNHLVVDERTGHLYLGAVNRIYKLSDDLKVLVTHETGPDNDPKCYPRIVQCNPLET 109  
Db 103 TFNHLTVHQGTGAVYVGAIVKLTGNLTQVAKHTGPEDNKSRYPPPLIVQPCSEVLT 162  
QY 110 TTNVNVKMLLDYKENRLIACGSLYQGIKLLRLEDLFKLGEYPYHKEHYLSGVNBSGSV 169  
Db 163 LTNVNVKMLLDYSENRLIACGSLYQGVCKLLRLDDLFILVPSHKEHYLSVNVKGTGM 222  
QY 170 FGVIVSYNLDKDLFIATAVDGKPEYPTTISRKLTKNSADGMPAVVHDFVASMIKI 229  
Db 223 YGVIVRSEGEDGKLFITGAVDGKQDYFTTSLSRKLPRDPSSAMLDYELHSDDFVSSLIKI 282  
QY 230 PSDTFTIIPDPIYVYVGFSSGNFVYFVLTLOPEMVSPPG---STTKQVYTSKLVRLCKE 286  
Db 283 PSDTLALVSHDFIYVYGFASGGFVYFLTQVPE--TPEGVAINSAGDLFYTSRIVRLCKD 340  
QY 287 DTAFNSVYVPIGCRSGVYRLLQAAVLSKAGAVLGRGLGVHPDDDLLFTVFSKGQKRX 346  
Db 341 DPKEFHSVSLPFGCTRAGVEYRLQAYLAKPGDSLQAQAFNITSQDDVLFVFAIFSGKQKY 400  
QY 347 MKSLDESALCIFIILKQINDRIKRLQSCYRGEGLDIAWLKVKDIPCSALLTIDDNFCG 406  
Db 401 HHPDPSALCAFPPIRINLQIKERLQSCYQEGNLELNLWLLGKDVQCTKAPVPIDDNFCG 460  
QY 407 LDMNAPLGVSMDVRGIPVFTEDRDMTIVIAVYVYKXSLAFVGTSGKLLKIRVDGPRGN 466  
Db 461 LDINQPLGGSTVEGLTYTTSRDMTIVASVYVNGYSWVFGTSGKLLKXRVV----- 514  
QY 467 ALQVE-----TVQVNDPGVLRDMAFSK-DHEQLYIMSERQ 501  
Db 515 ---YEFRCNAIHLJSLKESLLEGSYWRNRYNQLYFLGEQR 552

RESULT 3

US-09-902-775A-170  
; Sequence 170, Application US/09902775A  
; Patent No. 6686431  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnucy, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCES: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/902, 775A  
; CURRENT FILING DATE: 2001-07-10

; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
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; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 170  
; LENGTH: 552  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-902-775A-170

Query Match 13.5%; Score 1351.5; DB 4; Length 552;  
Best Local Similarity 51.6%; Pred. No. 8.4e-113;  
Matches 269; Conservative 81; Mismatches 116; Indels 55; Gaps 8;

QY 23 STLTROPAPLSQOKR-----SFVTRGEPAE- 49  
Db 45 SRLLT--AAPLSMEQRPWRALEVDSSRVLLSVVLLAPPAAQMPQSTFHSNRDW 102  
QY 50 GFNHLVVDERTGHLYLGAVNRIYKLSDDLKVLVTHETGPDNDPKCYPRIVQCNPLET 109  
Db 103 TFNHLTVHQGTGAVYVGAIVKLTGNLTQVAKHTGPEDNKSRYPPPLIVQPCSEVLT 162  
QY 110 TTNVNVKMLLDYKENRLIACGSLYQGIKLLRLEDLFKLGEYPYHKEHYLSGVNBSGSV 169  
Db 163 LTNVNVKMLLDYSENRLIACGSLYQGVCKLLRLDDLFILVPSHKEHYLSVNVKGTGM 222  
QY 170 FGVIVSYNLDKDLFIATAVDGKPEYPTTISRKLTKNSADGMPAVVHDFVASMIKI 229  
Db 223 YGVIVRSEGEDGKLFITGAVDGKQDYFTTSLSRKLPRDPSSAMLDYELHSDDFVSSLIKI 282  
QY 230 PSDTFTIIPDPIYVYVGFSSGNFVYFVLTLOPEMVSPPG---STTKQVYTSKLVRLCKE 286  
Db 283 PSDTLALVSHDFIYVYGFASGGFVYFLTQVPE--TPEGVAINSAGDLFYTSRIVRLCKD 340  
QY 287 DTAFNSVYVPIGCRSGVYRLLQAAVLSKAGAVLGRGLGVHPDDDLLFTVFSKGQKRX 346  
Db 341 DPKEFHSVSLPFGCTRAGVEYRLQAYLAKPGDSLQAQAFNITSQDDVLFVFAIFSGKQKY 400  
QY 347 MKSLDESALCIFIILKQINDRIKRLQSCYRGEGLDIAWLKVKDIPCSALLTIDDNFCG 406  
Db 401 HHPDPSALCAFPPIRINLQIKERLQSCYQEGNLELNLWLLGKDVQCTKAPVPIDDNFCG 460

QY 407 LDVNAFLGSDMVRGIPVFTEDDRMTSVIATYVKNHSLAFVTKSGKGLKKIRVDGPRN 466  
Db 461 LDINQPLGGSTPVEGLTLYTSDRMTSVASVYVNGSYVVFVTKSGKGLKKVRV----- 514  
QY 467 ALOVE-----TVQVDDPGVPLRDMAFSK-DHEQLYIMSRQ 501  
Db 515 ---YEPRCSNAHLLSKESLLEGSYWRFNRYRQLYFLGEOR 552

RESULT 4

US-09-181-706-2  
; Sequence 2, Application US/09181706  
; Patent No. 6130068  
; GENERAL INFORMATION:  
; APPLICANT: Melanie K. Spriggs, Michael R. Coney,  
; APPLICANT: Robert F. Dubose, Richard S. Johnson  
; TITLE OF INVENTION: VIRAL ENCODED SEMAPHORIN PROTEIN  
; TITLE OF INVENTION: RECEPTOR DNA AND POLYPEPTIDES  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Janis C. Henry  
; STREET: 51 University St.  
; CITY: Seattle  
; STATE: WA  
; COUNTRY: US  
; ZIP: 98101  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/181,706  
; FILING DATE: October 28, 1998  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/958,598 (converted to a  
; APPLICATION NUMBER: Provisional, see below)  
; FILING DATE: October 28, 1997  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: --to be assigned-- (USN 08/958,598  
; APPLICATION NUMBER: conversion to Provisional application)  
; FILING DATE: October 26, 1998  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Henry, Janis C  
; REGISTRATION NUMBER: 34,347  
; REFERENCE/DOCKET NUMBER: 2631-A  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206)470-4189  
; TELEFAX: (206)233-0644  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1568 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-181-706-2

Query Match 13.5%; Score 1349; DB 3; Length 1568;  
Best Local Similarity 24.8%; Pred. No. 1e-111;  
Matches 480; Conservative 291; Mismatches 591; Indels 576; Gaps 74;  
QY 72 YKLSDDLKVLVTHETGDEDNPKYPRIVQTCNEPLTTI-----NNVAKMLLDYK 123  
Db 70 YSLEHLSRLRYDQAG-----NCTEPVSLAPPARPFGSSFSK-LLLPYR 113  
QY 124 ENR-----LIACGSLYQGICKLLRLDLFLKLGEPYHKHEHLSGV-----NESGSVFGV 172  
Db 114 EGAAGLGGLLLTGTWTFDRCAGEVRPLGNL-----SRNSLRNGTEVWSCHPQGSTAGV 165  
QY 173 IVSVSNLDDKLFLIA-----TAVDGKPEYFPTISSRKLTKNS 208

Db 166 VYR-AGRNRYLAATAAYVLPPEPETASRCNPAASDHDHTAIALKOTEGSLATQELGRK 224  
QY 209 EADGMFAVFDHDFV-ASMKIPSDTFTIIPDFIYVYVGFSSGNFVFTLTQPEMVSPP 267  
Db 225 LCEGAGSLHFVDAFLWNGSIYFP-----YYPNYTSG---AATGWFEMARIA 268  
QY 268 GSTTKEQVYTSKLVRLCKEDTAFNSYVEVPIGERSGVF-YRLQAAVLSKAGAVLRTL 326  
Db 269 QST-----EVLFGQ--QASLDGCGHPDGRLLLSLSSLEA----- 302  
QY 327 GVHPDDLLFTVFS--KGQKRMKSDBESALCIFIILKQINDRIKERLQSCYRGEGTLDLA 384  
Db 303 -----LDVWAGVFAAAGEGQERSPTTALCLFEMSEIQARAK-----VS 344  
QY 385 W-LKVYDIPCSSALLTIDDNFCGLDMNAPLGVSMDVGRIPVFTEDDRMTSVIATYVKNH 443  
Db 345 WDFKTAESHCKEG-----DQP-----ERVQPIASSTLIHSDLTSVYTVVMNR 387  
QY 444 SLAFVGTSGKGLKKIRVDGPRGNALQYETQVW-----DPGPVLRDMASKD 490  
Db 388 TVLFLGTGQGLLVIL-----GENLTSCPEVIYIEKETPVFKLVDPDV-----K 435  
QY 491 HEQYIMSERQLTRVPVYESQYQSCGCEGLSGDPHCGWCVLHNTCTRKERCERSKEPRR 550  
Db 436 NIYIYLTAGKEVRRIRVANCNKHKSCSECLTATDPHCGWCHSLQRCITFGQDC----- 487  
QY 551 FASEMKQCVRLTVHPNNISVSQYNNVLLVLETYNVPELSAGVNCFTEDLSEMDGLVGNQI 610  
Db 488 -----VHSENL-----NWLDISG----- 502  
QY 611 QCYSPAKEVPRIITENGDDHHVQLQKSKETGMTFASTSFVYNCVHNSCL-SCVESP 669  
Db 503 -----AKKCPKI-----QIIRSSKEKTTVTWVGSF-----SPRHSKCMYKVNDS 542  
QY 670 YRCHWKYRVHCTHDPKTCFQEGRVKLPEDCPQLLRVDKLLVPVEVIKPTLAKNLPQ 729  
Db 543 -----RELK-----QNKSQ 551  
QY 730 PQSGQGYECILNTQGSERVPALRFNSSVYQCCQTSYSYEGMEINNLVVELTVVW--G 787  
Db 552 PNR-----TCTCSI-----PTRAIVKDVVNVWFSGS-----WNLS 585  
QY 788 HFNDINPAQNKVHLKCGAMPSCGLCLKADPDFACGCGQPGGQCTLRQHCAPAESQWLE 847  
Db 586 RNFNTN-----CSSLKE-CPACVET-----GCWCKSARRC----- 615  
QY 848 LSGAKSKCTNPRITEIIPVTGREGGTVIRGENGLGLEFRDIASHVKVAGVECSPLVDG 907  
Db 616 -----IHPFTA-----CDP-----S 625  
QY 908 YIPABQIVCEM-----GEAKPSOHAGFVEICVACRPEFVARSSQLYFTLTSLDLKP 961  
Db 626 DYERNQEQCPVAVENTSGGRPKENK-----NRTNQLQVYF-----IKSIEP 669  
QY 962 SRGPMGGTQVTITGTNLNAGSNV-VVMFGKQPC-----LFHRRSPSYIVCNTTSSDEV 1014  
Db 670 QKVSTLGSNVIVTGANFTRASNITMLKGTSTCDKDVIVSHVLNTHMKFSLPSERK- 728  
QY 1015 LEMK-VSVQVDRAKIHQDLVFQYVEDPTIVRIEPMISVNGTPIAVWGTHTLDLQNPQI 1073  
Db 729 -EMKDVCIQFDGNGCNSVGSLSYIALPHCSLIFFATTWISGQNTIMMGRNFDVND--L 785  
QY 1074 RAKHGGKEHINICEVLNATENTCOAPALALGPDHQSDLTERPEEFGFTLDNVQSLLILNK 1133  
Db 786 IISHELKGINVSECVATYCGFLAPSL-----KSSKVRVTVTKLRVQD 830  
QY 1134 T-----NFTYYPNPVFEAFPGSILELKPPTIILKGNLIPPVAGGNVKNLYTVLVEK 1188  
Db 831 TVLDGQTLQYREDPFTGYR---VESEVDTELEVKIQ-----KENDNFNISK 875  
QY 1189 PCTVTV---SDVOLLCESPNLI-----GRHKWARYVGGMEYS 1222

Db 876 DIEITLPHGQNCSPENITRNQDLATLILCKIKGKTASTIANSSKKVVKLGNLE-- 933  
Qy 1223 PGMVYIAPDS-PLSLPAIVSTAVAGGLLIIFVAVLIAKBSRESDLTLKRLQWQMDNL 1281  
Db 934 ---LVQESVSTWYFIVLVPV---LLVIVFAVGVTRHKSKE--LSRQSQ-QUELL 984  
Qy 1282 ESRVALECKEAFELQTDIHELTSLDGAG-IPFLDYRTYMRVLFP--GIEDHPVLRLD 1338  
Db 985 ESELKEIRDGFAELQMDKLDV---VDSFGTVPLDYKHFAIRLTFPPESGGFTHTFTEDM 1041  
Qy 1339 EVPGYRQREVEKGLKFLA--QLINNKVLLSFIRLESQSFMSRDRGNVASLMTVLQS 1396  
Db 1042 ---HNRDANDKNESLTALDALKCNKSLFVTVIHTLEKQKFSVKDRCLFASFILALQT 1097  
Qy 1397 KLEYATDVLKQALLDILDKLESKNHPKLLARLTESVAEKMLTNWFTLLYKFKKECAGE 1456  
Db 1098 KLVYLTSLVLTLDLMSQC--SNMQPKMLARLTESVVEKLLTNWMSVCLSGFLRETVGE 1155  
Qy 1457 ELFSLFCALQKQMEKGPDAITGEARYSLSDKLIHQIDYKTLVLSV---SPDNANSP 1513  
Db 1156 PFYLLVTLTNQKNGPVDVITKALYTLNEDWLLWQVPEFSTVALNVVFEKIPENESAD 1215  
Qy 1514 ---EVPVKILNCDTITQVEKILDAIFKNVPCSHRPAKADMDLEWROQSGARMILQDEDI 1570  
Db 1216 VCRNISVNVLDCTTIGQAKEKIFQAFLEKNGSPYGLQNEIGLELOWGTROKELDIDSS 1275  
Qy 1571 TTKIENDMKRLNTLAHYQVPGSVVALVSQVTAYNAYNNSTVSRTSASKYENMIRYTG 1630  
Db 1276 SVILEDGITKLTNGHYEISNGSTIKV-----FKKIANFTSD 1312  
Qy 1631 PDSLSRTPMITPDLESQVGMVHLVKNHEHGDQKEGDRGSK--MYSEIYLTRLIATKGT 1688  
Db 1313 VEYSDHCHLLDPDSEA---FQVQGRKH-----RGKHFKVKEMILTKLSTKVAI 1361  
Qy 1689 QKFVDDLTFETFTAHRSALPLAIAKYMFDLDEQADKHGIDHPHRTWKSNCPLRFW 1748  
Db 1362 HSVLEKLFERSIWSLEN--SRAPFAIKYFFDLDAQAEKNTDPDVVHIWKTNSLPLRFW 1419  
Qy 1749 VNMINKPOVEDIHKNSITDACLVSVAQTEWDCSTSEHRLGKDSPSNKLKAYKIDPSYK 1808  
Db 1420 VNILKNPOVFDPDKTTHIDGCLSVIAQAFMDAPSLTEQOQKGAAPTNNKLYAKDIPYK 1479  
Qy 1809 NWVERYSYDGRWPAISQDMNAYLAESRSMHNEFTNMSALSEIFSVMGYSBEILGPL 1868  
Db 1480 BEVKSYYKAIRDLPLLSSEMEEFITQESKKHENEFEVEALTEIYKIVYVYFDEILNKL 1539  
Qy 1869 DHD---DOGGKQKLAYKL 1883  
Db 1540 EREGLLEAQKQLLHVK 1557

RESULT 5

US-09-458-791-2

Sequence 2, Application US/09458791

Patent No. 6174689

GENERAL INFORMATION:

APPLICANT: Spriggs, Melanie

TITLE OF INVENTION: VIRAL ENCODED SEMAPHORIN PROTEIN

RECEPTOR DNA AND POLYPEPTIDES

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESSEE: Janis C. Henry

STREET: 51 University St.

CITY: Seattle

STATE: WA

COUNTRY: US

ZIP: 98101

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: MS-DOS/Windows 95

SOFTWARE: Word for Windows 95, 7.0a

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/458,791  
FILING DATE: 10-Dec-1999  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/958,598  
FILING DATE: 28-OCT-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: Henry, Janis C  
REGISTRATION NUMBER: 34,347  
REFERENCE/DOCKET NUMBER: 2631  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206)470-4189  
TELEFAX: (206)233-0644  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1569 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-09-458-791-2  
Query Match 13.5%; Score 1349; DB 3; Length 1568;  
Best Local Similarity 24.8%; Pred. No. 1e-111;  
Matches 480; Conservative 291; Mismatches 591; Indels 576; Gaps 74;  
Qy 72 YKLSDDLKVLVTHETGPEEDNPKYPPRIQVTCNEPLTTT-----NNVNMKLLIDYK 123  
Db 70 YSLEHSLRLYDQAG-----NCTEPVSLAPPARPGRGSSFSK-LLLPYR 113  
Qy 124 ENR-----LIAGSLYQGIKLLRLLEDLFKLGEVHKKEHVLGSV-----NESGVSFVG 172  
Db 114 EGAAGLGGILLTGTWTFDRGACEVRLGNL-----SRNSLRNGTEVVSCHPQGSTAGV 165  
Qy 173 IVSYSLNDLKKLFTA-----TAVDGKPEYFTTISRKLTKNS 208  
Db 166 VYR-AGNNRWYLAVAATVYLPETASRCNPAASDHDTAIALKOTEGRSLATQELGRLK 224  
Qy 209 EADGMFAYVPHDFV-ASMKTPSDFTTIPDFDIYVYGFSSGNFVFLTLOPEMVSP 267  
Db 225 LCEGAGSLHFDVDAFLWNGSIYFP-----YYPNYTSG-----AATGWPMSARIA 268  
Qy 268 GSTTKEQVYTSKLVLCKEDTAFNSYVEVPICERSGVE-YRLLQAAVLSKAGAVLGRTL 326  
Db 269 QST-----EVLFGQ--QASLDGCHGHPDGRLLLSLSLVEA----- 302  
Qy 327 GVHPDDDLLTFVPS--KGQKRKMSLDESALCIFILKQINDRIKERLQCYRGEGLDLA 384  
Db 303 ---LDWAGVFSAAAGEGQERRSPTTTALCLFRMSEIQARAKR-----VS 344  
Qy 385 W-LKVVDIPCSALLTIDDNFCGLDMNAPLVGSDMVRGIPVFTEDRDRMTSVIAYVKNH 443  
Db 345 WDFKTAESHCKEG-----DQP-----ERVQPIASSTLIHSDLTSVYGTVMNR 387  
Qy 444 SLAPVGTGSKLKKIRVDGPRGNALQYETVQVV-----DPPVLRDMAPSKD 490  
Db 388 TVLPLGTGQQLLKVL---GENLTSNCPVIVEIKEETPVFYKLVDPDV-----K 435  
Qy 491 HEOLYIMSERQLTRVPVESCQYQSCGECIGSGDPHCGKCVLHNTCTRKERCERSKEPRR 550  
Db 436 NIYILTAGKEVRIRVANCNKHKSCSECLTATDPHCGWCHSLQRTTFQDC----- 487  
Qy 551 FASEMKQCVALTVHPNNISVSQYNVLLVLETYNVPELSAGVNCFTFEDLSEMDGLVGNQI 610  
Db 488 -----VHSENLE-----NWLDISG----- 502  
Qy 611 QCVSPAKEVPRIITENGDDHHVVLQQLKSKETCTASTSFVFNCSVHNSCL-SCVESP 669  
Db 503 -----AKCPKI-----QITRSKKEKTTVMVGSF-----SPRHSKCMVKVNDSS 542  
Qy 670 YRCHWCYKRVHCTHDPKTCSTQEGRVKLPBDCQPLLARVDKILVPVEVIKPTILKAKNLPQ 729  
Db 543 -----RELK-----QNKSQ 551

QY 1749 VNMKNPOFVFDIHKNISITDACLSSVQAQTFMDCSTSEHRLGKDSNKLKLYAKDIPSYK 1808  
Db 1420 VNILKNPOFVFDIHKTHIDGCLSVIAQAFWDAFLTEQQKGAAPTNNKLYAKDIPYK 1479  
QY 1809 NWERYSDIGKMPAISDQDMAYLAEQSRKHHNEENTMSALSSEIFSVGVKYSEIILGPL 1868  
Db 1480 EEVXSYYKAIKRDPLPLSSSEMEEFLOESKKEHNEFEVVALTEIYKIYKIFDEILNKL 1539  
QY 1869 DHD---DCGKQKLAAYKL 1883  
Db 1540 ERERGLEBAQKQLLHVKV 1557  
  
RESULT 6  
US-09-459-066-2  
; Sequence 2, Application US/09459066  
; Patent No. 6187909  
; GENERAL INFORMATION:  
; APPLICANT: Spriggs, Melanie  
; TITLE OF INVENTION: VIRAL ENCODED SEMAPHORIN PROTEIN  
; NUMBER OF SEQUENCES: 10  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Janis C. Henry  
; STREET: 51 University St.  
; CITY: Seattle  
; STATE: WA  
; COUNTRY: US  
; ZIP: 98101  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: MS-DOS/Windows 95  
; SOFTWARE: Word for Windows 95, 7.0a  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/459,066  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/958,598  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Henry, Janis C  
; REGISTRATION NUMBER: 34,347  
; REFERENCE/DOCKET NUMBER: 2631  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206)470-4189  
; TELEFAX: (206)233-0644  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1568 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-09-459-066-2  
  
Query Match 13.5%; Score 1349; DB 3; Length 1568;  
Best Local Similarity 24.8%; Pred. No. 1e-111;  
Matches 480; Conservative 291; Mismatches 591; Indels 576; Gaps 74;

QY 730 PQSGRGYECILNIGSQEVRPALRFNSSSVQCNISYSYEGMEINNLVELTVVNV--G 787  
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QY 788 HFNIDPAQNKVHLKYGAMRESGLCKADPDACGWCQGPQCTLRQHCFAQESQWLE 847  
Db 586 RNFNTN-----CSSLKE-CPACVET-----GCAWCKSARRC----- 615  
QY 848 LSGAKSKCTNPRITEIPVTGREGGKTVIRGENLGLERDIAASHVKVAGVECSPLVDG 907  
Db 616 -----IHFFTA-----CDP---S 625  
QY 908 YIPAEQIVCEM-----GEAKPSQAHAGVEICVACRPFEMARSSQLYFMTLTLSDLKP 961  
Db 626 DYERNQEQCPVAVEKTSGGGRPKENKG-----NRTNQAQOVFY-----IKSIEP 669  
QY 962 SRGPMSCGTQTTITGTLNAGSNV-VVMFGKQPC-----LFHRRSPSYIVCNVTSDEV 1014  
Db 670 QKVSTLGSNVITGANFTRASNTITLKGTSCTCDKDVICQVSHVLDNTHKFLSPSRK- 728  
QY 1015 LEMK-VSVQVDRAKIHQDLVFQYVEDPTIVRIEPEWSIVSGNTPIAVGWTHLDLIONPOI 1073  
Db 729 -EMKDVCIQDGGNCSSVGLSYIALPHCSLIPATTWISGGQNTIMMGRNFDVIDN--L 785  
QY 1074 RAKHGGEHINICEVFNATEMTCOAPALAGPHQSDLTERPEEPFILDNVOSLILNK 1133  
Db 786 IISHELKGNINVSVCYATVCGFLAPSL-----KSKVRTNVTVKLRVQD 830  
QY 1134 T-----NFTYVNPVFEAFPGSGILEKPGTPIILKGNLIPPVAGGNVKNLTVLVGEX 1188  
Db 831 TYLDCGTLOVREDPRFTGYR-----VESEVTELEVLIQ-----KENDNFNISK 875  
QY 1189 PCTVTV---SDVQLLCSNLI-----GHKKNARVGGMEYS 1222  
Db 876 DIEITLPHGNGQLNCFENITRQDITLILCKIKGTASTIANGSKKVRVLGNLE-- 933  
QY 1223 PGMVYIAPDS-PLSLPAIVSAVAGGLIIFIAVLIAVKRKGRESLTLKRLQMOMDNL 1281  
Db 934 ---LYVQESVPSVWFLIVLPV---LLVIVIPAAGVTRKSKKE--LSRKQSQ-QLELL 984  
QY 1282 ESRVALECKEAFABLOTHIELTSDLGAG-IPFLDYRTVTVMLVPP--GIEDHPVURDL 1338  
Db 985 ESELRKEIRDFABELQKLDV---VDSFGTVPLDYKHFALRTFFPESGGFTHIETDM 1041  
QY 1339 EVPQYRBERVEKGLFA--QLINNKVFLISFIRLESORFSMRDRGNVASLIMTVLOS 1396  
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QY 1457 PLFSLFCAIKOOMEKGPDAITGEARYLSLSEDKLIRQIDYKTLVLSV---SPDNANSP 1513  
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QY 1571 TTKTENDWKRNLTAHYQVPGSVVALVSKQVTAYNVNSVTSVRTSASKYENMIRTCGS 1630  
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QY 1631 PDSLSRSPMTIPOLSEGVQWHLVKNHEHQDQKQGRGSK--MVSEIYLTRLIATKGTLL 1688  
Db 1313 VEYSDHCHLILPDEA---FQDVQGRH-----RGKHKEVKEMYLTKLLSTKVAI 1361  
QY 1689 QKFVDDLETTFSTAHRSALPLAIKYNWFDLQADKHGHDHVRHWTWKSNCCLPLRFW 1748  
Db 1362 HSVLEKLFPSIWSLEN--SRAPPAIKYFFDFLQAEKNKKTIDPDVVHINKTNSLPLRFW 1419

Db 225 LCEGAGSLHFVDAFLWNGSIYFP-----YYPNYTSG-----AATGWSMARIA 268  
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Db 269 QST-----EVLFGQ--QASLDGCHGPDGRRLLSLSSLEA-----302  
QY 327 GVHPDDDLFTVFS--KGQKRMKSLDESALCIFLTKQINDRIKERLQSCVGRGGTDLDA 384  
Db 303-----LDVWAGVFSAAAGEQERSPTTALCLFMSIQAAR-----VS 344  
QY 385 W-LKVDPICPSALLTIDNFCGLDMNAPLGVSDMVRGIPVFTEDRDMTSVIAVYKNH 443  
Db 345 WDFKTAESHCKEG-----DQP-----ERVQPIASSTLIHSLDTSVYGVYVMNR 387  
QY 444 SLAFVGTSGKLVKIRVDGPRGNALQYETVOV-----DGPVLRDMARSKD 490  
Db 398 TVLFLGTGGQLLVIL-----GENLTSNCPVIVIEKEETPVFYKLVDPDV-----K 435  
QY 491 HEQLYIMBERQLTRVPVBSQOYQSCGCLSGDPHOCWVHNTCTRKERCERSKSPRR 550  
Db 436 NIYIYLTAGVRRIRVANCKHSCSECLTATDPHCGWCHSLQRCCTFGDC-----487  
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Db 488-----VHSENLE-----NWLDISG-----502  
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Db 586 RENFTN-----CSSLKE-CPACVET-----GCWCKSARRC-----615  
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QY 962 SRGPMSSGGTVITGTNLNAGNV-VVMFGKQPC-----LFHRSPPSVIVCNTTSSDEV 1014  
Db 670 QKVSTLGSNNVITGANFTRASNITWILKGTCTCDKDVIOQVSHVNDTHMKSFLSSRK- 728  
QY 1015 LEMK-VSVQVDRAKIHQDLVQYVEDPTIVRIEPMWSIVSGNTPIAVMGTHLDLQNPQI 1073  
Db 729 -EMKDVICIQDGCNCSVSGSLYALPHCSLIFFATTWISGQNTIMGRNPDVIDN--L 785  
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QY 1134 T-----NFTYFNPVPEAFGSPGILELKPGTPIILKGNLIPFVAGGNVKNLYTVLGEK 1188  
Db 831 TVLDCGTQVREDPRTGYR-----VESEVDTELEVKIQ-----KENDNFNISK 875  
QY 1189 PCTVTV---SDVQLLCSNLI-----GRHKVAVRGVMEYS 1222  
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Db 934 ---LYVEQESVPSTWYFLIVLPV---LLVIVIFAAVGVTRHKSKE--LSRKQSQ-QLELL 984  
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RESULT 7  
US-09-459-065-2  
; Sequence 2, Application US/09459065  
; Patent No. 6562949  
; GENERAL INFORMATION:  
; APPLICANT: Spriggs, Melanie  
; TITLE OF INVENTION: VIRAL ENCODED SEMAPHORIN PROTEIN  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Janis C. Henry  
; STREET: 51 University St.  
; CITY: Seattle  
; STATE: WA  
; COUNTRY: US  
; ZIP: 98101  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: MS-DOS/Windows 95  
; SOFTWARE: Word for Windows 95, 7.0a  
; CURRENT APPLICATION DATA: US/09/459,065  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:

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, APPLICATION NUMBER: 08/958,598
,
, FILING DATE:
,
, ATTORNEY/AGENT INFORMATION:
,
, NAME: Henry, Janis C
,
, REGISTRATION NUMBER: 34,347
,
, REFERENCE/DOCKET NUMBER: 2631
,
, TELECOMMUNICATION INFORMATION:
,
, TELEPHONE: (206)470-4189
,
, TELEFAX: (206)233-0644
,
, INFORMATION FOR SEQ ID NO: 2:
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, SEQUENCE CHARACTERISTICS:
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, LENGTH: 1568 amino acids
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, TYPE: amino acid
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, TOPOLOGY: linear
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, MOLECULE TYPE: protein
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, US-09-459-065-2

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Query Match	13.5%	Score 1349	DB 4	Length 1568
Best Local Similarity	24.8%	Pred. No.1e-111		
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DB	114	EGAAGLGGLLLTGWTDFRGACEVRPLGNL-----SRNSLRNGTEVVSCHPOQSTAGV	165	
QY	173	IVSVNSLDDKLFIA-----TAVDGPVEFPPTISSRKLTKNS	208	
DB	166	YVR-AGRNRRNYLVAATYVLPETASRCNPAASDHDHTAIALKDTEGRSLATQELGRLK	224	
QY	209	EADGMFAVFHDEFV-ASMIKIPGSTFTIIPDFDIYVYGSSGNFVFLTLQEMVSPP	267	
DB	225	LCEGAGSLHFVDAFLWNGSIYFP-----YYPNTYSG-----AATGWSMARIA	268	
QY	268	GSTTKEQVYTSKLVRLCKEDTAFNSYVEVPICERSGVE-YRLLOQAYLSKAGAVLGRTL	326	
DB	269	QST-----EVLFGQ--QASLDCGHGPDGRLLLSLSSLVEA-----	302	
QY	327	GVHPDDDLLFTVES--KGQKRWKSLDSEALCIFILKQINDRIKERLOSCYRGEGTLDLA	384	
DB	303	-----LDVWAGVFSAAAGEGERRSPPTTALLCLFPMSEIQARAK-----VS	344	
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DB	345	WDFKTAESHCKEG-----DQP-----ERVQFIASSTLHSDLSYVYGTVVNR	387	
QY	444	SLAFVGTSGSKLKTIVDGPGRNALQYETQVW-----DGPVLVDRMAFSKD	490	
DB	388	TVLFLGTGDGQLKVL-----GENTSTNCPEVIYBIKETPVFYKLVPDPV-----K	435	
QY	491	HEQLYIMSEROLTVFVBSGCGYQSGCEGLSGDPHCVCVLHNTCTRKERCERSKEPRR	550	
DB	436	NIYIYLTAGVRRTRVANCWKHKSGSECLTATDPHCWCNCHSLQRCTQGDG-----	487	
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DB	498	-----VHSENLE-----NWLDISSG-----	502	
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DB	543	-----RELK-----QNKSK-----	551	
QY	730	POSGORGVECIINIQGESEORVPALLRNSSSVQCONTSYSEGMENINLPVELTVVW--G	787	
DB	552	PNR-----TCTCGSI-----PTATYKDVSVVNVMFSGS-----WNLSD	585	

Qy	788	HNINIDPAQKVHLYKCGAMRES	CGLCLKADPDFACGQC	CGPGCOTLRHQCHPAQESOWLE	847																																																				
Db	586	RNFNTN	---	CSLKE-CPACVET	---	615																																																			
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Db	616	-----	-----	-----	-----	-----	-----	625																																																	
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Db	626	DYERNO	EQCPVA	VEKTS	GGGRKENG	-----	-----	-----	-----	969																																															
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Db	729	EMK	VCIO	FDGNG	SSVCSLS	YIALPHCS	LIFFATWIS	GQONIT	WMGRNF	VDIDN	785																																														
Qy	1074	RAKHG	KEHINICE	VNAT	TEMTQAPAL	ALGDHQS	DLTERPE	FGFILD	VNVQS	LIILNK	1133																																														
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Qy	1134	T-----	NFTY	PNP	FEAP	PGSGILE	LKFGTPIIL	KGKLI	PPVAGG	VNKLNTY	VLVGEK	1188																																													
Db	831	TYLDC	GTLOY	RED	PFTGYR	-----	-----	-----	-----	-----	-----	875																																													
Qy	1189	PCVT	VTV	-----	SDVOL	CES	PNLI	-----	-----	-----	-----	1222																																													
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Qy	1223	PGM	VITAP	OS	PLSL	PAI	VSIA	VAGOLLI	IFTVA	LIAYKRS	RSBSDLTK	ELQOMQ	MDNL	1281																																											
Db	934	---	LYVE	QSV	PS	TWY	FLIV	LPV	---	LI	VIVIFAA	VGVT	RHSKE	---	984																																										
Qy	1282	ESR	VALECKE	AP	FAEL	OTD	IHE	LT	SD	LGAG	---	IP	FD	YRTY	TRV	FLP	---	GIEDH	PV	LDL	1338																																				
Db	985	ESE	LRKE	IR	DG	FAEL	QMD	KLDV	---	VD	SGT	V	FD	LD	YKH	FAUL	TFP	ESG	GGTH	IPT	EDM	1041																																			
Qy	1339	EV	PGYQ	ER	VEK	GL	KL	FA	---	OL	INN	V	FL	S	FT	LT	LES	Q	R	S	P	M	R	D	R	G	N	V	A	S	I	M	T	V	L	O	S	1396																			
Db	1042	---	HN	R	AND	R	K	N	E	S	J	T	A	L	D	A	L	C	N	K	S	F	L	V	T	I	H	L	E	K	Q	N	F	S	V	K	D	R	C	L	F	A	S	F	L	T	A	L	O	T	1097						
Qy	1397	K	L	E	Y	A	T	D	V	L	K	O	L	L	A	D	I	L	D	K	N	L	S	K	H	P	K	L	L	R	T	E	S	V	A	E	K	M	L	T	N	W	T	F	L	L	Y	K	E	C	A	G	E	1456			
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Qy	1457	P	L	F	S	L	F	C	A	I	Q	O	M	E	K	P	I	D	A	I	T	E	A	R	Y	S	L	S	E	D	K	L	I	R	Q	O	I	D	Y	T	K	L	V	L	S	C	V	---	S	P	D	N	A	N	S	P	1513
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Db 1480 EVKSYKAIADLPPLSSSEMEFLTQSKGHENFEVALTEIYKIVKFIENLKL 1539  
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Db 1540 ERERGLEEAQKQLLHVKV 1357  
RESULT 8  
US-09-345-473E-24  
; Sequence 24, Application US/09345473E  
; Patent No. 6558903  
; GENERAL INFORMATION:  
; APPLICANT: Hodge, Martin  
; TITLE OF INVENTION: No. 6558903el Kinases and Uses Thereof  
; FILE REFERENCE: 35800/183781  
; CURRENT APPLICATION NUMBER: US/09/345,473E  
; CURRENT FILING DATE: 1999-06-30  
; NUMBER OF SEQ ID NOS: 62  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 1404  
; TYPE: PRT  
; ORGANISM: Gallus gallus  
US-09-345-473E-24  
Query Match 5.4%; Score 538.5; DB 4; Length 1404;  
Best Local Similarity 20.3%; Pred. No. 1.6e-38;  
Matches 349; Conservative 223; Mismatches 549; Indels 599; Gaps 76;  
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Qy 59 RTGHTYLGAVNRIVYKSLSDKLVLVTHETGPDENPKCYPPRIVQTCNEPLATTNNVKNML 118  
Db 59 DPTTFVAVRNLVVDPELRSLVLTGPTGSAF-CEICRLCPAAVDAPGEDVDNVL 117  
Qy 119 LIDYKENRLIAGSLYQGIKLLRLE-----DLFK-LGEPYHKHEHYLSGVN 164  
Db 118 LLDPEVPELYSGTARRGLCYLHLDVRGSEVTIASTRCLYSAAANSPVNCPCVASPLG 177  
Qy 165 EBSGVFVGIVSYNSLDDKLFATAVDGK--PRYFP-TJSSRLTKNSEADGMAFVVFDE 221  
Db 178 STATVA-----DRYASFYLGSTVNSSVAARYSPRSVSRL--KGRTRG-FADPFH-- 227  
Qy 222 FVAMIKIPSDFTIIPDFD-----IYVYGFSSGNFVFLTLQPMVSPGSGTTKEQYVT 277  
Db 228 -----SLTVLPHYQDVPIHYVHSFTDGDHVLTVQPEF-----PGSST-----FH 269  
Qy 278 SKLVRLCKEDTAFNSVVEVPICG-----ERSGVE-----YRLQRAYLSKAGAV 321  
Db 270 TRLVRLSAHEPELRRYREIVLDCRYESKRRRRRGAEEETERDVAINVLQAAHARPGR 329  
Qy 322 LGRTLVGHPDDLLFTVFSKQKRMKSLDESALCIFILKQINDRIKERLQSCYRGEGLT 381  
Db 330 LARDLIGDTETVLFGAFAPESHPESRAPQHNASVCAFPRLNLNQAIREGMDKC----- 382  
Qy 382 DLAWLVKDI PCSSALLTTDDNFCGLDMNAPLGVSDMVRGIFVFTEDRDRMTSVIATYVK 441  
Db 383 -----CG-----TGTQTLKRGLAFFQFQ-----YC 403  
Qy 442 NLSLAFVGTGSKLKIIRVDGPRGNALQYETVQVDPGVLDMAFSKDHEQLYIMSRQ 501  
Db 404 PHS-----VNLSPAVNTSCWD-----Q 421  
Qy 502 LTRVPVBSGQVQSGCEGLGSDPHCGWCVLNCTCRKERCBSRPRFASSEMKCQVRL 561  
Db 422 PTLVPAAS-----H-----KV 432  
Qy 562 TVHPNNISVQYNVLLVLETYNVPELSAGVNCFTFEDLSMDGLVGNQIQCYSPAKEVP 621  
Db 433 DFNGLSGTLTSLTIFVVLQNV-----TVAHLGTAQGRVL----- 468

Qy 622 RIITENGDIHVVLQQLKSKETGMTASTSVFVNCVSVHNSCLSVESPYRCHWKYRHYC 681  
Db 469 QMVLQRSSSYVAL-----TNF----- 485  
Qy 682 THDPKTCSPQEGRVKLPEDCPQLLRVDKILVPVEVIKPTILKAKNLPQSQGQGYECIL 741  
Db 486 -----SLGEPGLVQHATGLQHS-LL 505  
Qy 742 NIOGSEQRVPALRFNSSVQCNQTSYSYEGMBINNLVELTVVWNGHFNIDINPAQNKVHL 801  
Db 506 FAAGTK-----VMRVNVTGPGR-----HFS----- 526  
Qy 802 YKCGAMRESCLCLKADPDFACWCQCGQCTLRQHCPAQESQWLSGAKSKCTNPRIT 861  
Db 527 -----ICDRCLRAERFMGCGC-GNG-CTRHHC-----AGFWVQ-----DSCP-PVLT 567  
Qy 862 EIIPVTGREGTKVTIRGENLGLPR-----DIASH-----VKVAGVECSPLVD--G 907  
Db 568 DFHPRGAPLRGQTRVTL-----CGMTFSPDPDTAHSLEPCPYRVAYGSRSCVTLDES 623  
Qy 908 YIP-----AEQIVCEMGEAKPSQAGFVEICVAVCRPEFMAF-----SSQL--YVF 951  
Db 624 YRPLPTFRKDFVDVLVLCVLEPGEPAAAGPADVLNVTESAGTSRPRVQGSSTLSGFVF 683  
Qy 952 MTLTSLDLKPSRPMGSGTQVITITGNLNAAGNVVNFQKQCLFHRHRS-----YIVCN 1007  
Db 684 VEPHISTLHPSFGPGGGTLMISLYGTHLSAGSMRVTINGSECLLDGQ--PSEGDGEIRCT 742  
Qy 1008 TTGSDVLEMKVSQVDRAKIHQDLVQYVEDPTIVRIEPMISVSGNTPFIAMVGHLDL 1067  
Db 743 APAATSLGAAPVAINIDGEBFLAPLPEFTRDPDSVLTUVVNCY--GGSTLILGTHLDS 800  
Qy 1068 IQNPQIRAK--HOGKEHINICEVLNATE-MTCOAPALALGPDHQSULTRPERBFGFILDN 1124  
Db 801 VYRAKIQFGGGGKTEATECEGPQSPNLLCRSPAFPI-----EIKPVGNLSVLLDG 854  
Qy 1125 VQSLILINKTNFYNYNPFVPEAFPSG-ILELKGPTIILKGNLIPPVAGGNVKNLYTV 1183  
Db 855 AADRNLF--RLRYFPQPMFSGQGRYQLKPGDNEIKVNLGLDSVAG--CMNITM 908  
Qy 1184 LVGKEPCTVTSQVQLLCESPNLI-----GRHKMARVGVGMEYFGMYIAPDSPLSLPAI 1239  
Db 909 TVGGRDCHPNVKNVTCRVPDRDVLTPAGAPQICVNGDCQALGLV--LPASSLDMAA- 965  
Qy 1240 VSTAVAG--LLIIFIVAVLIAYK-RKSR-----ESDLTKRLQMOMDNL 1281  
Db 966 -SLALGTGVTFLVCCVLAALVLEWRWRKRGLENLELVHPRIEHPITQR--PNVDYR 1022  
Qy 1282 ESRVLECKEAPAELOTDIHELTSDDLGDAG-----IPFL-----DYR----- 1318  
Db 1023 EVQV-LPVADSPGLARPHAFASAGADAAGGSPVPLRTTSCLEDLRPELLEEVKIL 1081  
Qy 1319 -----TYTMVRL-----PPGIEDHPVLDL-----EVPGRQBRV- 1348  
Db 1082 IPBERLITHRSVIRGHHFSGVYHGYMDPLLGNLHCAVKSRLHRTDLEVEBFLREGIL 1141  
Qy 1349 -----EKGLKLAQLINNKVFLLSFIRTL----- 1373  
Db 1142 MKSFHPQVLSLIGVCLPRHGLPLVLPYMRHGDHAFIRAQERSPTVKELIGLQVAL 1201  
Qy 1374 -----SORFSMRD--RGNVASLIMTVLOSLEYATDVL-KOLLADLIDKNLESKNHPK 1424  
Db 1202 GMEYLAQKPFVHRDLAARNCMDETLTVKVDVFGARDVFGKEYY-----SIRQHRHAK 1255  
Qy 1425 LLLR--RTESVAERKLTN---W-FTFLYKFLKECAGEPLFLFLCAIKQOMEKGPIDAI 1477  
Db 1256 LPVKWMALESLOQKFTTKSDVNSFGVLMWELTRGA-----SYPEVDVYDM- 1303  
Qy 1478 TGEARYSLSDKLIHQIDYKTL---VLSCVSPDNANSP 1513  
Db 1304 ---ARYLLRGRRLPQPCPDITLYGVMLSCWAPTPEERP 1339

Db 593 QOGLGVFCWS 603

RESULT 10  
US-09-077-940A-4  
; Sequence 4, Application US/09077940A  
; Patent No. 6576441  
; GENERAL INFORMATION:  
; APPLICANT: KIMURA, Toru et al.  
; TITLE OF INVENTION: NOVEL SEMAPHORIN Z AND GENE ENCODING THE SAME  
; FILE REFERENCE: 0020-4426P  
; CURRENT APPLICATION NUMBER: US/09/077,940A  
; CURRENT FILING DATE: 1998-06-05  
; NUMBER OF SEQ ID NOS: 20  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 4  
; LENGTH: 888  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-077-940A-4

Query Match 2.6%; Score 263; DB 4; Length 888;  
Best Local Similarity 22.7%; Pred. No. 5.7e-14;  
Matches 144; Conservative 90; Mismatches 208; Indels 192; Gaps 34;

Qy 11 LLSHLLVMGSSSTLLTRQAPILSOKORSFVTF-----RGEPAEGFNHLVVD--- 57  
Db 13 LLLLLLLILG-GAHLFPEDPPPLSVAPRDYLNHYVFGSGPGLRTPAEGADDLNTQRLV 71  
Qy 58 --ERTGHIYLGAVNRIYKL-----SSDLKV--LVTHETGPDNDNPKYPPRIVQTCNEP 107  
Db 72 RVNET--LFIGDRNLVRELPEPTSTELRYQKLTWRSNPSDINVCRMKGQEGECR-- 127  
Qy 108 LTTNNVNMKLLIDYKENRLIACGS-IYQIGICKLLRLLEDLPKGE-----PYHKEH 158  
Db 128 ---NFVKVLLLRD--ESTLFGVGSNAFNVCANYSIDTLQVGDNTSGMARCYDPKH 180  
Qy 159 YLSGVNESGSVFGVIVG-----YSLNDDKLFATAVDVGKPEYPTTSSRKLTKNSE 209  
Db 181 ANVALFSDGMLFTATVTDFLAIDAVIYRSLGDR-----PTLRTVK----- 220  
Qy 210 ADGMFAVYHDFEVSAMIKIPSDFTTIPDPIYVYVFGSGNFPVYPLTLQPMVSPGS 269  
Db 221 -----HD---SKWKEP-----YFVHAVEMGSHVYFFREIAM-----EF 252  
Qy 270 TTKEQVYTSKLVRICKSDTA-----FNSVVEVPICGERSG---VEYRLQAAYLSK 317  
Db 253 NYLEKVVSVRVARVCKNDVGSGPRVLEKQWTSFLKRLNCSVPGDSHFYFNVLQAV--- 308  
Qy 318 AGAVLGRTLGVHPDDLLFTVFSKGQRKMKSLDESALCIFIILKQINDRIKERLQSCYRG 377  
Db 309 TGWV---SLGGRP---VVLAVFS---TPSNSIPGSAVCAFDLTQVAAVFEGR---FRE 354  
Qy 378 EGTLDLAWLKYD--IP-----CSSALLTIDDFECGLDMNA---PLGVSDMVRGIPVPT 426  
Db 355 QKSPESITWTPVEDQVPRPRPGCAA-----PGQYNASSALPDIIINFVKTHPLMD 406  
Qy 427 ED-----RDRMTSVIAYV---YKNHSLAFVGTSGKGLKIRV-----D 461  
Db 407 EAVFSLGHAPWILATLARGHQLTRVAVDVGAGPWGNTQVFLGSEAGTVLFLVRPNASTS 466  
Qy 462 GPRGNALQYETVQVDP-----GPVLRDMAPSKDHEQLYINSEQLTEVPVESC 510  
Db 467 GTSGLSVFLEBEFYRDRGCRPGGGETGQRLSLSELDAAASGGLLAAPPCVVRVPVARC 526  
Qy 511 QYQYQSC-GECLGSDPHCGW-----CVLHNTCTR 538  
Db 527 QYSGCKMKNCIGSDPYCGWAPDGCIFLSPGTR 560

RESULT 11  
US-09-077-940A-2  
; Sequence 2, Application US/09077940A

RESULT 9  
US-08-556-422A-4  
; Sequence 4, Application US/08556422A  
; Patent No. 6576754  
; GENERAL INFORMATION:  
; APPLICANT: HALL, Kathryn T.  
; APPLICANT: FREEMAN, Gordon J.  
; APPLICANT: SCHULTZE, Joachim L.  
; APPLICANT: BOUSSIOTIS, Vassiliki  
; APPLICANT: NADLER, Lee M.  
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING CD100 MOLECULES  
; FILE REFERENCE: DFN-005CPA2  
; CURRENT APPLICATION NUMBER: US/08/556,422A  
; CURRENT FILING DATE: 1995-11-09  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 4  
; LENGTH: 607  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-08-556-422A-4

Query Match 3.1%; Score 308; DB 4; Length 607;  
Best Local Similarity 21.5%; Pred. No. 2.4e-18;  
Matches 144; Conservative 110; Mismatches 257; Indels 160; Gaps 29;

Qy 36 KQSFVTFRGEPAEGFNHLVVDERTGHIYLGAVNRIYKLSLDKVLVTHE-----TGPDE 90  
Db 1 EERLIRKFEAENISNTALLSQDGKTLVYGAREALFALNSNLSFLPGGEYQELLWSADA 60  
Qy 91 DNEPKYPPRIVQTCN---EPLTTNNVNMKLLIDYKENRLIACG-SLYQGICKLLRLLED 145  
Db 61 DRK-----QOCSFKGDKPRDCQYIKILL-PLNSSHLITCGTAASPLCAVIHIAS 111  
Qy 146 LFKLGPYHKEHYLGVNESGSVFGVIVSYNSLD-----DKLFIATA--VDGKPEY 195  
Db 112 -FTLAQ-----DEAGNVI-----LEDGKGCPDPDPFKSTALVWDG--EL 148  
Qy 196 F-----PTSSRKLTKNSEADGMFAVYHDFEVSAMIKIPSDFTTIPDPIY 244  
Db 149 ITGTVASFQNDPAIRSGSSRTESSLNMTQDPAFVASATSPESLSPGIDDDKIYF 208  
Qy 245 VYGFSSGNFYFILTQPEMVSPGSTTKEQVYTSKLVRICKEDA-----FNSVVEV 296  
Db 209 FSETQGEPEFF-----ENTIVSRVARVCKGEGGERVLQQRWTSFLKA 252  
Qy 297 PICER--SGVEYRLQAAYLSKAGAVLGRTLGVHPDD---DLLFTVFSKGQRKMKSLD 351  
Db 253 QLLCSPDDGDFPNVLQDVF-----TLNPNQDWRKTLISIGVFTSQWHR--GTTE 300  
Qy 352 ESALCIPILKQINDRIKERLQSCYRGEGTDLAW-LKVKDIPCSSALLTIDDFECGLDMN 410  
Db 301 GSAICVFTM--ND-VQXAFDGLYKKNRQETQWYTHQVTPRPGACITNSABERKIN 356  
Qy 411 APLGVSD-----MYRGIPVTFEDRDRMTSVIAY---YKNHSLAFVGTGS 452  
Db 357 SSLQLPDRVLNFKDHPFLMDQVRSRLLLQLPARYQRVAVHRVPGLHSTYDVLFLGTGD 416  
Qy 453 GKLKIRVDPGRGNALQYETVQVDPGPVLRDMAPSKDHEQLYIMSERQLTRVPEVSCGQ 512  
Db 417 GRHKAVTLSSRHII--EELQIFPQGPQVQVONILLDSHGLLYASSHSGVQVQVANCSL 474  
Qy 513 YQSCGECCLGSDPHCGW-----CVLHNT-----CTXKRCERSKBPFRFA 552  
Db 475 YPTCGDCLLARDPYCAWTGACRLASLQYDPLASRPWTQIEGASVKELCNKSYSKARPL 534  
Qy 553 SEMKQCVRLVTHNNISVSQYNVLLVLET---YNPVLSAGVNCCTFEDLSEMDGLVGN 608  
Db 535 VPQKPCQVQIQNTVNTACPLLSNLATLWVHNGAPVNASASCRV--LPTGDLILLVGS 592  
Qy 609 Q-----IQCVS 614

```
; Patent No. 6576441
; GENERAL INFORMATION:
; APPLICANT: KIMURA, Toru et al.
; TITLE OF INVENTION: NOVEL SEMAPHORIN Z AND GENE ENCODING THE SAME
; FILE REFERENCE: 0020-4426P
; CURRENT APPLICATION NUMBER: US/09/077,940A
; CURRENT FILING DATE: 1998-08-05
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 2
; LENGTH: 887
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-09-077-940A-2

Query Match      2.4%; Score 244.5; DB 4; Length 887;
Best Local Similarity 22.2%; Pred. No. 2.7e-12;
Matches 141; Conservative 86; Mismatches 206; Indels 203; Gaps 34;

Qy 8 WT-----CLSHLLMVGMSSSTLLTROPAPLSQKQSFVTF-----RGEPAE 49
Db 2 WTPRPPPPALLFLLLLRVTHGLFDEPPPLSVAPRDYLSHYVPVVGSGPGKLTAAE 61
Qy 50 GFNHLVVD-----ERTGHYLGAVNRIYKL-----SSDLKV--LVTHETGDFEDNPKCY 96
Db 62 GAEDLNIOQLRVNRT--LFIGDNLQVLEPSTSTELRYQKLTWRSNPSD-----113
Qy 97 PPRIVQTC-----NEPLTTNNVNMMLLDYKENRLIACGS-LYQGI CKLLLEDLFKLGE 151
Db 114 ----IDVCRMKQGECECNFVKVLLRD--ESTLFCVGSNAFNICANYMDTLQLLGD 167
Qy 152 -----PYHKKEHLSGWNSSGVFGVIVS-----YSNLDLKLFIATAVDGKPE 194
Db 168 NISGMARCPYDPK-HANVALFSDGMLFTATVDFLAIDAVIYSLGDR-----214
Qy 195 YPPTISSRLTKNSEADGMFAVFDHDFVAMIKIPSDTFTIIPDFDIYVYVGSNGFV 254
Db 215 --PTLRTVK-----HD--SKWKEP-----YFVHAVEWGSHV 242
Qy 255 YELTLQPMVSPGSTTKQVYTSKVLRLCKEDTA-----FNSVVEVPIGCSERG- 304
Db 243 YFFPREIM-----EFNYLEKVVSVRVCKNDVGSPPVLEKQWTSFLKARLNCVPGD 298
Qy 305 --VEYELLQAAVLSKAGAVLGTGLVHPDDLLFTVFSKGQKRMKSLDESALCIFILKQ 362
Db 299 SHFYFNVQLAV-----TGVR--SLGGRP--VILAVFS---TPSNSIPGSVAVCAFDMMQ 344
Qy 363 INDRIKERLOS CVRSGTLDLAWLVKD--IP-----CSSALLTIDNFCGLDMNAPLVG 415
Db 345 VAAVFEGR-----FREOKSPESIMTVPEDQVPRPRPGCCAA-----PGMYNASNAL 392
Qy 416 SD-----MVRGIP-----VFEDRDRMTSVIAYV-----YKNHSLAFVGTGS 452
Db 393 PDEILNFVKTHPLMDEAVPSLGHSPWIVRLIRHQLTRVAVDVGAGPWGNGQITVFLGSEV 452
Qy 453 GKLLKI-----RVDPGRNALQYETVQVVDP-----GPVLRDMAFSKDHEQL 494
Db 453 GTVLKFLVKNASVSGTTPGISFLBEFETPRDRCGRSSAGEWGQRLLSLELDAASGGL 512
Qy 495 YIMSEROLTRPVVESCQYQSC--GECGLGSDPHCGW 529
Db 513 LAAFPRCVAVPVARQQLYSGCMKNCIGSQDPICGW 548

RESULT 12
US-09-653-274-4
; Sequence 4, Application US/09653274
; Patent No. 6635742
; GENERAL INFORMATION:
; APPLICANT: Boyle, Bryan J
; APPLICANT: Yeung, George Y
; APPLICANT: Arterburn, Matthew C
; APPLICANT: Mize, Nancy K

; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Drmanac, Radoje T
; TITLE OF INVENTION: Methods and Maaterials Relating to Semaphorin-Like
; FILE REFERENCE: HYS-23
; CURRENT APPLICATION NUMBER: US/09/653,274
; CURRENT FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 09/491,404
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 4
; LENGTH: 1086
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-653-274-4

Query Match      2.3%; Score 228; DB 4; Length 1086;
Best Local Similarity 19.9%; Pred. No. 1.2e-10;
Matches 123; Conservative 107; Mismatches 219; Indels 168; Gaps 31;

Qy 10 CLSHLLMVGMSSSTLLTROPAPLS-----QKQSFVTFGEPAEGFNHLVVD-----ERT 60
Db 7 CAVILLMVSQLRAVSFPDEDFLNTVDYHSQYVVFGRPGSGNESQHRDLDFQLMLKIR 66
Qy 61 GHYVLGAVNRIYKLSDDLKVLVTHETGPD-----EDNPKC-YPPRIVQTCNEPLTT 110
Db 67 DTLIAGSDQVYV--NINEMPKTEVIPNKKLTWRSRQDRENCAMKGRKDECHNFI--122
Qy 111 TNNVNMMLLDYKENRLIACG-SLYQGI CKLLLEDLFKLGEFYHKHKEHLSGV-----163
Db 123 -----KVFPVRNDEMVFVCGTNAFNPCRYRYLSTLEYDGER-----ISGLARCPFD 169
Qy 164 --NESGSGVFGVIVSYNLDLKLFIATAVDGKPEVFTTISRKLTKNSEADGMFAVYVPHDE 221
Db 170 ARQTNVALFA-----DGKLYSATVAD-----FLASDAVIYRSMGDSALRTI--K 212
Qy 222 FVAMIKIPSDTFTIIPDFDIYVYVGSNGFVYFLLTQPMVSPGSTTKQEYVYTSKLV 281
Db 213 YDSKWKEP-----HFLHATEYGNVYVFFPRE---IAVEHNHNLGKAVY-SRVA 256
Qy 282 RLCKEDTA-----FNSVVEVPIGCSERG-----VEYELLQAAVLSKAGAVLGR 325
Db 257 RICKNDMGSGQGVLEKHTSFLKARLNCVPGDPFFVDFVLSITDIQINGIPTVVG--314
Qy 326 LGVHPDDLLFTVFSKGQKRMKSLDESALCIFILKQINDRIKERLOS CVRSGTLDLAW 385
Db 315 -----VFTT-----QLNSIPGSVAVCAFSMDDEIKVFKGR-----FKEQKTPDSVW 354
Qy 386 LKVKD--IP-----CSSALL-----TID--DNFCGLDMNAPLVGSDM--VRGIPVETE 427
Db 355 TAVPEDKVPKPRPGCCAKHGLAEAYKTSIDFPDETLSFIKSHPLMDSAVPIADEPFTK 414
Qy 428 D--RDRMTSV---IAVYKNSHLAFVGTGSKGLKKI-----RVDG 462
Db 415 TRVRYRLTAISVDHSAGPYQNYTVIFVSGEAGWLVKLAKTSPFSLNDSVLLEBEIAYNH 474
Qy 463 PRGNALQYETVQVVDPGVLRDMAFSKDHEQLYIMSEROLTRPVVESCQYQSCGE-CLG 521
Db 475 AKCSAENEEDKKVI-----SLQDKDHALYVAFVAFSCIRIFLSCRYGCKCKSCIA 527
Qy 522 SGDPCGWCVLHNTCTR 538
Db 528 SRDPYCGW-LSQSGGR 543

RESULT 13
US-08-121-713D-62
; Sequence 62, Application US/08121713D
; Patent No. 5639856
; GENERAL INFORMATION:
; APPLICANT: Goodman, Corey S.
```

APPLICANT: Kolodkin, Alex L.  
 APPLICANT: Matthes, David  
 APPLICANT: Bentley, David R.  
 APPLICANT: O'Connor, Timothy  
 TITLE OF INVENTION: The Senaphorin Gene Family  
 NUMBER OF SEQUENCES: 100  
 CORRESPONDENCE ADDRESSES:  
 ADDRESSES: SCIENCE & TECHNOLOGY LAW GROUP  
 STREET: 268 Bush Street, Suite 3200  
 CITY: San Francisco  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 94104  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/121,713D  
 FILING DATE: 13-SEP-1993  
 CLASSIFICATION: 514  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Osman, Richard A.  
 REGISTRATION NUMBER: 36,627  
 REFERENCE/DOCKET NUMBER: B94-002-1  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415)343-4341  
 TELEFAX: (415) 343-4342  
 TELEX:  
 INFORMATION FOR SEQ ID NO: 62:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 724 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-121-713D-62

Query Match	2.3%;	Score 227;	DB 1;	Length 724;
Best Local Similarity	20.4%;	Pred. No. 6.9e-11;		
Matches 147;	Conservative 118;	Mismatches 260;	Indels 196;	Gaps 36;
QY	53	HLVDEDTGHIVGAVNRIVKLSDDLKVLVTHETGPDENPKCYPPRIVOTCNEPLTTTN	112	
DB	72	HMNEDRDT--LYVGAMDVFRV--NLQNISSNCNRDAIN-----LPETRDDVVSCV	119	
QY	113	NVNKMLLDYKENRLIACGSLYQIGICKLLRLDLFKLGEPPVHKEHY-----LGVNNEG	167	
DB	120	SKGKSQIFDCK-NHVRVIOQSDQG-----DRLYVCGTNAHNPDKYIVYANLTHLPSE	171	
QY	168	SVFGIVYS-----YSNLDDKLFIAATV---DGKPEYFPTISRRKLTKNSEADGMFAVVFH	219	
DB	172	YVIGVGIGIAKCPDPLDN-----STAYVENGNGPGLPYSGTNAFTKAD---TWIFR	224	
QY	220	DEFVAMIKIPSDTFTTIPDPI-----YVYGFSSGNFVYFTLQF--EMVSPPGSTT	271	
DB	225	TDLYNTSAKRLYEYFKRTLKYDYSKWLDPNPFVGSFDIGEYVYFFRETAVEYIN-----C	279	
QY	272	KEQVYTSKLVRLCKEDTA-----FNSVYEVPICGERSG--VEYRLQAAVLSKAGA	320	
DB	280	GKAVY-SRIARVCKDVGGKULLAHNWTATYIKALINCSISEGFFPYFNEIGSVY-----	332	
QY	321	VLGRTLGVHPDDDLFTTVFSKGQRKMKSLDDESALCIFILKQI---NDRIKERLQSCYR	376	
DB	333	-----QLPSDKSRFFATFT-----TSTNGLIGSAVCSFHINEIQAAFNKGFEQSSS---	379	
QY	377	GEGTLDLAWLAKVD--IPCSSALLTIDNFCGLDMNAPLGVSDMVVRGTP-----	423	
DB	380	-----NSAWLPVLSRVPEPRPGTCVNT-----SNLEDTVLNTRSHPLMDKAVNHEHN	429	
QY	424	-----VFTE---DRDRMTSVIAYVYKNHS-LAFGTKSGKUKKIRVGDGPRGNAL-QY	470	
DB	430	NPVYYKRDVLFTKLVDKIR-----IDIILNQSYIVYVGTNLGRYIKYIQVYVRNGESISKL	485	

QY	471	ETVVVVDPGPVLDMAFSKDHEQLYIMSERQLTRVPVESCQ-QYQSCGBCLGSDPHCGW	529
Db	486	LDIFEVAPNEAIQWMEISQTRKSLYIGTDHRIKQIDLAMCNRRIYDNCFCV--RDPYCGW	543
QY	530	CVLHNTCTRKER-----CERSKEPRRFASMKQCVRLLTVHPNNISVSNVL	576
Db	544	KREANTCRPYELDLLQVANETSIDICDSSVLKKKIVVTYQSVHLGCF-----	591
QY	577	LVLETYNVPELSAGVNCFTEDLSEMDGLVVGNGIOCYSPAAKEVPRIITENGDDHVVVLQ	636
Db	592	-----VKIPEVLKNEQVTHHHSKDKRGY--EIR-YSPTK-----YIETTERGLVVVS	636
QY	637	LKSKETGMTFASTSFYFNCNVHNSCLSVESPYRCHWKYR-----HVTCHDPKTCGSFQ	691
Db	637	VNEADGGR-----YDCHLGSSLL-----CSYNTITVDAHRCTPFNKSDNYQ	676
QY	692	Z 692	
Db	677	K 677	
RESULT 14			
US-08-835-268-62			
; Sequence 62, Application US/08835268			
; Patent No. 5807826			
; GENERAL INFORMATION:			
; APPLICANT: Goodman, Corey S.			
; APPLICANT: Koldckin, Alex L.			
; APPLICANT: Matthes, David			
; APPLICANT: Bentley, David R.			
; APPLICANT: O'Connor, Timothy			
; TITLE OF INVENTION: The Semaphorin Gene Family			
; NUMBER OF SEQUENCES: 100			
; CORRESPONDENCE ADDRESS:			
; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP			
; STREET: 268 Bush Street, Suite 3200			
; CITY: San Francisco			
; STATE: CA			
; COUNTRY: USA			
; ZIP: 94104			
; COMPUTER READABLE FORM:			
; MEDIUM TYPE: Floppy disk			
; COMPUTER: IBM PC compatible			
; OPERATING SYSTEM: PC-DOS/MS-DOS			
; SOFTWARE: PatentIn Release #1.0, Version #1.25			
; CURRENT APPLICATION DATA:			
; APPLICATION NUMBER: US/08/835,268			
; FILING DATE:			
; CLASSIFICATION:			
; PRIOR APPLICATION DATA:			
; APPLICATION NUMBER: US/08/121,713			
; FILING DATE: 13-SEP-1993			
; ATTORNEY/AGENT INFORMATION:			
; NAME: Osman, Richard A.			
; REGISTRATION NUMBER: 36,627			
; REFERENCE/DOCKET NUMBER: B94-002-1			
; TELECOMMUNICATION INFORMATION:			
; TELEPHONE: (415)343-4341			
; TELEFAX: (415) 343-4342			
; TELEX:			
; INFORMATION FOR SEQ ID NO: 62:			
; SEQUENCE CHARACTERISTICS:			
; LENGTH: 724 amino acids			
; TYPE: amino acid			
; TOPOLOGY: linear			
; MOLECULE TYPE: protein			
US-08-835-268-62			

Query Match 2.3%; Score 227; DB 1; Length 724;  
Best Local Similarity 20.4%; Pred. No. 6.9e-11;  
Matches 147; Conservative 118; Mismatches 260; Indels 196; Gaps 36;

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QY 53 HLVDERTGHIYLGAVNRIYKLSLKLVLVTHETGPDENPKCPYPRIVQTCNEPLTTN 112
DB 72 HNNEDRT--LYVGAMDRFV--NLQNISSNCRDAIN-----LEPRDDVVSCV 119
QY 113 NVNKMILLIDYKENRLIACGLYOGIKLLLELDLFLKBPYHKKHY-----LSGVNESC 167
DB 120 SKGSKQIFDCK-NHVRVIOQMDG-----DRLYVCGTNAHNPCKDYIYANLTHLPSE 171
QY 168 SVFGVIVS-----YSNLDKLFATAV---DGKPEYFPTISSRKLTKNSEADGMFAYVPH 219
DB 172 YVIGVGLIAKCPYDPLDN---STAIVVNGNPGGLPGIYSGTNAEFTKAD---TVIFR 224
QY 220 DEFVAMIKIPSDTFTIIPDFI-----YVYGFSSGNFVYFLTLQP---EMVSPPGSTT 271
DB 225 TDLVNTSAKLEYKFKRLKYDSKWLDPKPNFVGSFDIGEYVYFFRETAVEYIN-----C 279
QY 272 KEQVYTSKLVRLCKEDTA-----FNSYVEVPICGERSG---VYRLLQAAVLSKAGA 320
DB 280 GKAVY-SRIARVCKKDVGGKMLLAHNWATYILKARLNCISGEPFFYFNEIQSVY----- 332
QY 321 VLGRITGLVHPDDLLFTVFSKGQKRMKSLDESALCIFILKQI-----NDRIKERLQSCYR 376
DB 333 -----QLPSDKSRFFATFT-----TSTNGLIGSAVCSFHINEIQAAFNGKFEQSSS--- 379
QY 377 GEGTLDLAWLKVD--IPCSSALLTIDNFCGLDMNAPLGVSMDVRGIP----- 423
DB 380 -----NSAWLPVLSRVPEPRPGTCVNDT-----SNLPDVLNFIIRSHPLMDKAVNHEH 429
QY 424 -----VFTE---DRDRMTSVIAYVYKNSHLAFVGTGSKGLKIRVDGPRGNAL-QY 470
DB 430 NPVYKRDVFTKLVDKIR-----IDLNQEVIVYVGTNLGRIYKIVQYRNGESLSKL 485
QY 471 ETQVQVDPGVLRDMAFKDEHQLYMSERQLTRVPVSCG-QYQSCGCLGSDPHCGW 529
DB 486 LDIFEVAPNEAIQVMEISQTRKSLYIGTDHRIKQIDLAMCNRRYDNCRCV--RDPYCGW 543
QY 530 CVLHNTCTRKER-----CERSKEPRFASFMKQCVRLTVHPNNISVSQYNVL 576
DB 544 DKEANTCRPYELDLQDVANETSDICDSSLKVIIVYQSVHLGCF----- 591
QY 577 LVLETYNVPELSAGVNCFTFEDLSEMDGLVVGNOICYSYPAKKEVPRITENDGHHVQLQ 636

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RESULT 15

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US-09-060-692-62
; Sequence 62, Application US/09060692
; Patent No. 5935865
; GENERAL INFORMATION:
; APPLICANT: Goodman, Corey S.
; APPLICANT: Kolodkin, Alex L.
; APPLICANT: Matthes, David R.
; APPLICANT: Bentley, David R.
; APPLICANT: O'Connor, Timothy
; TITLE OF INVENTION: The Semaphorin Gene Family
; NUMBER OF SEQUENCES: 100
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
; STREET: 268 Bush Street, Suite 3200
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94104
; COMPUTER READABLE FORM:

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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/060.692
FILING DATE:
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/121.713
FILING DATE: 13-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: Oeman, Richard A.
REGISTRATION NUMBER: 36,627
REFERENCE/DOCKET NUMBER: B94-002-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 343-4341
TELEFAX: (415) 343-4342
TELEX:
INFORMATION FOR SEQ ID NO: 62:
SEQUENCE CHARACTERISTICS:
LENGTH: 724 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-060-692-62

Query Match 2.3%; Score 227; DB 2; Length 724;
Best Local Similarity 20.4%; Pred. No. 6.9e-11;
Matches 147; Conservative 118; Mismatches 260; Indels 196; Gaps 36;

QY 53 HLVDERTGHIYLGAVNRIYKLSLKLVLVTHETGPDENPKCPYPRIVQTCNEPLTTN 112
DB 72 HNNEDRT--LYVGAMDRFV--NLQNISSNCRDAIN-----LEPRDDVVSCV 119
QY 113 NVNKMILLIDYKENRLIACGLYOGIKLLLELDLFLKBPYHKKHY-----LSGVNESC 167
DB 120 SKGSKQIFDCK-NHVRVIOQMDG-----DRLYVCGTNAHNPCKDYIYANLTHLPSE 171
QY 168 SVFGVIVS-----YSNLDKLFATAV---DGKPEYFPTISSRKLTKNSEADGMFAYVPH 219
DB 172 YVIGVGLIAKCPYDPLDN---STAIVVNGNPGGLPGIYSGTNAEFTKAD---TVIFR 224
QY 220 DEFVAMIKIPSDTFTIIPDFI-----YVYGFSSGNFVYFLTLQP---EMVSPPGSTT 271
DB 225 TDLVNTSAKLEYKFKRLKYDSKWLDPKPNFVGSFDIGEYVYFFRETAVEYIN-----C 279
QY 272 KEQVYTSKLVRLCKEDTA-----FNSYVEVPICGERSG---VYRLLQAAVLSKAGA 320
DB 280 GKAVY-SRIARVCKKDVGGKMLLAHNWATYILKARLNCISGEPFFYFNEIQSVY----- 332
QY 321 VLGRITGLVHPDDLLFTVFSKGQKRMKSLDESALCIFILKQI-----NDRIKERLQSCYR 376
DB 333 -----QLPSDKSRFFATFT-----TSTNGLIGSAVCSFHINEIQAAFNGKFEQSSS--- 379
QY 377 GEGTLDLAWLKVD--IPCSSALLTIDNFCGLDMNAPLGVSMDVRGIP----- 423
DB 380 -----NSAWLPVLSRVPEPRPGTCVNDT-----SNLPDVLNFIIRSHPLMDKAVNHEH 429
QY 424 -----VFTE---DRDRMTSVIAYVYKNSHLAFVGTGSKGLKIRVDGPRGNAL-QY 470
DB 430 NPVYKRDVFTKLVDKIR-----IDLNQEVIVYVGTNLGRIYKIVQYRNGESLSKL 485
QY 471 ETQVQVDPGVLRDMAFKDEHQLYMSERQLTRVPVSCG-QYQSCGCLGSDPHCGW 529
DB 486 LDIFEVAPNEAIQVMEISQTRKSLYIGTDHRIKQIDLAMCNRRYDNCRCV--RDPYCGW 543
QY 530 CVLHNTCTRKER-----CERSKEPRFASFMKQCVRLTVHPNNISVSQYNVL 576
DB 544 DKEANTCRPYELDLQDVANETSDICDSSLKVIIVYQSVHLGCF----- 591
QY 577 LVLETYNVPELSAGVNCFTFEDLSEMDGLVVGNOICYSYPAKKEVPRITENDGHHVQLQ 636

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Db 592 -----VKIPEVLKNEQVTWYHHSKDKGRY---EIR-YSPTK-----YIETTERGLVVVS 636  
QY 637 LKSKETGTMFASTSFVFNCSVHNSCLSCVESPYECHWKYR-----HVCTHDPKTCFQ 691  
Db 637 VNEADGGR-----YDCHLGSL-----CSYNITVDAHRCCTPPNKSNDYQ 676  
QY 692 E 692  
Db 677 K 677

Search completed: May 25, 2004, 04:26:25  
Job time : 44 secs





; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: 60/237,434  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/238,321  
; PRIOR FILING DATE: 2000-10-05  
; PRIOR APPLICATION NUMBER: 60/238,399  
; PRIOR FILING DATE: 2000-10-06  
; PRIOR APPLICATION NUMBER: 60/238,396  
; PRIOR FILING DATE: 2000-10-06  
; PRIOR APPLICATION NUMBER: 60/276,667  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/294,823  
; PRIOR FILING DATE: 2001-05-31  
; PRIOR APPLICATION NUMBER: 60/304,868  
; PRIOR FILING DATE: 2001-07-12  
; NUMBER OF SEQ ID NOS: 127  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 13  
; LENGTH: 1896  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-964-956-13

Query Match 100.0%; Score 9990; DB 12; Length 1896;  
Best Local Similarity 100.0%; Pred No. 0;  
Matches 1896; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MRAMPNNWTCLLSHLLMVNGSGSTLLTROAPALSQKRSFVTRGEPAGFNHLLVVDERT	60
Db	1	MRAMPNNWTCLLSHLLMVNGSGSTLLTROAPALSQKRSFVTRGEPAGFNHLLVVDERT	60
Qy	61	GHIYLGAVNRIYKLSDDLKVLVTHETGPDENPKCVPPIVOTCNEPLTTNNVNMKLLI	120
Db	61	GHIYLGAVNRIYKLSDDLKVLVTHETGPDENPKCVPPIVOTCNEPLTTNNVNMKLLI	120
Qy	121	DYKENRLIACGSLYQIGICKLLRLLEDLFKLGEPPHKKHEHLSGVNBSGSGVFGVIVSYSNLD	180
Db	121	DYKENRLIACGSLYQIGICKLLRLLEDLFKLGEPPHKKHEHLSGVNBSGSGVFGVIVSYSNLD	180
Qy	181	DKLFATAVDGKPEYPTISSRKLTKNSEADGNFAVFDHFVASMIKIPSTFTIIPDF	240
Db	181	DKLFATAVDGKPEYPTISSRKLTKNSEADGNFAVFDHFVASMIKIPSTFTIIPDF	240
Qy	241	DIYVYVGFSGNPFVFLITLOPENVPSPGSTTKQVYTSKLVRLCKEDTAFNSVVEPIGC	300
Db	241	DIYVYVGFSGNPFVFLITLOPENVPSPGSTTKQVYTSKLVRLCKEDTAFNSVVEPIGC	300
Qy	301	ERSGVEYRLLOAAYLSKAGAVLORTLGVHPDDLLFTVFSKGQKRWKSLDESALCIFI	360
Db	301	ERSGVEYRLLOAAYLSKAGAVLORTLGVHPDDLLFTVFSKGQKRWKSLDESALCIFI	360
Qy	361	KQINDRIKERLQSCYRGEGLDLAWLKVDI PCSSALLITIDNFCGLDMNAPLGVSDMVR	420
Db	361	KQINDRIKERLQSCYRGEGLDLAWLKVDI PCSSALLITIDNFCGLDMNAPLGVSDMVR	420
Qy	421	GIPVFTEDDRMTSVIAYVYKNSHLAFVGTGSKLKKIRVDGPRGNALQYETVQVVDGP	480
Db	421	GIPVFTEDDRMTSVIAYVYKNSHLAFVGTGSKLKKIRVDGPRGNALQYETVQVVDGP	480
Qy	481	VLRDMAFSKDHEOLYIMSERQLTRVPVESCQYQSCGECIGSDGPHCGVLCVHNTCTRKE	540
Db	481	VLRDMAFSKDHEOLYIMSERQLTRVPVESCQYQSCGECIGSDGPHCGVLCVHNTCTRKE	540
Qy	541	RCRSEKPRFPASEMKQCVRLTVHPNNISVQYNVLLVLETYNVPBLSAGVACTFEDLSE	600
Db	541	RCRSEKPRFPASEMKQCVRLTVHPNNISVQYNVLLVLETYNVPBLSAGVACTFEDLSE	600
Qy	601	MDGLVGNQIQCYSPRAKEVPRIITENGDDHHVVLQQLKSKETGWTFASTSFVFNCSVEN	660
Db	601	MDGLVGNQIQCYSPRAKEVPRIITENGDDHHVVLQQLKSKETGWTFASTSFVFNCSVEN	660
Qy	661	SCLSCVESPYRCHWCKYRHYCTHDPKTCSPQEGRVKLPEDCPQLLRVDKILVPVEVIKPI	720
Db			

661 SCLSCVESPYRCHWCKYRHYCTHDPKTCSPQEGRVKLPEDCPQLLRVDKILVPVEVIKPI 720

Qy	721	TLKAKNLPQOSQORGVEICILNTQGBEORVPALRFNSSSVQCCNTSYSEGMENINLPVE	780
Db	721	TLKAKNLPQOSQORGVEICILNTQGBEORVPALRFNSSSVQCCNTSYSEGMENINLPVE	780
Qy	781	LTVVNGHFNDNPAQNKVHLKCGAMRESCGICLKADPDFACGWCQCPQCTLRQHCPA	840
Db	781	LTVVNGHFNDNPAQNKVHLKCGAMRESCGICLKADPDFACGWCQCPQCTLRQHCPA	840
Qy	841	QESQWLELSGAKSKCTNPRIITEIIPVTGPREGGTVKTIIRGENILGLBPRDTASHVKVAGVE	900
Db	841	QESQWLELSGAKSKCTNPRIITEIIPVTGPREGGTVKTIIRGENILGLBPRDTASHVKVAGVE	900
Qy	901	CSPLVDCGYIPAEQIVCEWGEAKPSQAGFVEICVAVCRPEPFMARSSOLYFYFMTLTLSDLK	960
Db	901	CSPLVDCGYIPAEQIVCEWGEAKPSQAGFVEICVAVCRPEPFMARSSOLYFYFMTLTLSDLK	960
Qy	961	PSRGPMSGGTQVITITGNINAGSNVVMFGKQCLFHRSPSYIVCNTTSSDEVLENKVS	1020
Db	961	PSRGPMSGGTQVITITGNINAGSNVVMFGKQCLFHRSPSYIVCNTTSSDEVLENKVS	1020
Qy	1021	VOVDRAKHODLVFYVEDPTIVRIPEWSIVSGNTPPIAVWGTHLDLIQNPQIRAKHGK	1080
Db	1021	VOVDRAKHODLVFYVEDPTIVRIPEWSIVSGNTPPIAVWGTHLDLIQNPQIRAKHGK	1080
Qy	1081	EHINICVLNATENTCOAPALALPDHQSOLTRRPEEFGFILDNVOSLLILNKTNTFTYYP	1140
Db	1081	EHINICVLNATENTCOAPALALPDHQSOLTRRPEEFGFILDNVOSLLILNKTNTFTYYP	1140
Qy	1141	NPVFEAPGSGILELKEGTFIILKGNLIPPVAGGNVKNLYTVLVGKPCCTVTVSDVQLL	1200
Db	1141	NPVFEAPGSGILELKEGTFIILKGNLIPPVAGGNVKNLYTVLVGKPCCTVTVSDVQLL	1200
Qy	1201	CESPNLIGRHKWAVRGMEYSYPMVYIAPDSPISLPAIVSIIVAGGLLIIFIVAVLIAY	1260
Db	1201	CESPNLIGRHKWAVRGMEYSYPMVYIAPDSPISLPAIVSIIVAGGLLIIFIVAVLIAY	1260
Qy	1261	KRKRESDLTKRLQOMDNLESRALECKEAPAELOTDIHELTSDDGAGIPLDVRTY	1320
Db	1261	KRKRESDLTKRLQOMDNLESRALECKEAPAELOTDIHELTSDDGAGIPLDVRTY	1320
Qy	1321	TMRVLFEGIEDHPVLRDLEVPGRQERVERKGLKLAQILNNKVPFLSIFITLSQRFSM	1380
Db	1321	TMRVLFEGIEDHPVLRDLEVPGRQERVERKGLKLAQILNNKVPFLSIFITLSQRFSM	1380
Qy	1381	RDRGNVASLINTVLQSKLEYATDVLKOLLADLDKNLESKNHPKLLLRRTESVAEKMLTN	1440
Db	1381	RDRGNVASLINTVLQSKLEYATDVLKOLLADLDKNLESKNHPKLLLRRTESVAEKMLTN	1440
Qy	1441	WFTFLLYKFLKECAGEPLFSIFCAIKQOMEKGPIDAITGEARYSLSDKLIHQIDYKTL	1500
Db	1441	WFTFLLYKFLKECAGEPLFSIFCAIKQOMEKGPIDAITGEARYSLSDKLIHQIDYKTL	1500
Qy	1501	VLSCVSPDNANSPEVPVKILNCDTITQVKEKILDAIFKNVPCSHRPAADMDLEWROGSG	1560
Db	1501	VLSCVSPDNANSPEVPVKILNCDTITQVKEKILDAIFKNVPCSHRPAADMDLEWROGSG	1560
Qy	1561	ARMILQDEDIITTKIENDWKRLNTLAHYQVPDGSVVALVSKQVATAYNANNSTVSRTSASK	1620
Db	1561	ARMILQDEDIITTKIENDWKRLNTLAHYQVPDGSVVALVSKQVATAYNANNSTVSRTSASK	1620
Qy	1621	YENMIRYTGSPDSLSRSTPMITPDLESQVKNWHLVKNHEHGDQKEGDRGSKMWEIYLTR	1680
Db	1621	YENMIRYTGSPDSLSRSTPMITPDLESQVKNWHLVKNHEHGDQKEGDRGSKMWEIYLTR	1680
Qy	1681	LLATKGTLOKXVDLFFETIESTAHRGSALPLAIKYMFDLDEQADKHGIDHPVHRHTWKS	1740
Db	1681	LLATKGTLOKXVDLFFETIESTAHRGSALPLAIKYMFDLDEQADKHGIDHPVHRHTWKS	1740
Qy	1741	NCLPLRFWNNMKNPQFVFDIHKNSITDACLSSVVAQTFMDSCTSEHRLGKDSNKLKY	1800
Db	1741	NCLPLRFWNNMKNPQFVFDIHKNSITDACLSSVVAQTFMDSCTSEHRLGKDSNKLKY	1800

QY 1801 AKDIPSYKNWERYYSYDICKKPAISDQDMNAYLAEQSMHNEFTMSALSEIFSYVGKY 1860  
DB 1801 AKDIPSYKNWERYYSYDICKKPAISDQDMNAYLAEQSMHNEFTMSALSEIFSYVGKY 1860  
QY 1861 SEELGPHDDQCKQKAYKLQVITLMSLDSNK 1896  
DB 1861 SEELGPHDDQCKQKAYKLQVITLMSLDSNK 1896

RESULT 2

US-10-451-010-9  
; Sequence 9, Application US/10451010  
; Publication No. US20040082761A1  
; GENERAL INFORMATION:  
; APPLICANT: INCYTE GENOMICS, INC.  
; APPLICANT: DUGGAN, Brendan M.  
; APPLICANT: XU, Yuming  
; APPLICANT: LEE, Ernestine A.  
; APPLICANT: LEE, Sally  
; APPLICANT: LU, Dyung Aina M.  
; APPLICANT: WARREN, Bridget A.  
; APPLICANT: YUE, Henry  
; APPLICANT: GIETZEN, Kimberly J.  
; APPLICANT: HONCHELL, Cynthia D.  
; APPLICANT: BURFORD, Neil  
; APPLICANT: BAUGHN, Mariah R.  
; APPLICANT: TANG, Y. Tom  
; APPLICANT: JACKSON, Jennifer L.  
; APPLICANT: GANDHI, Ameena R.  
; APPLICANT: KALLICK, Deborah A.  
; APPLICANT: BANDMAN, Olga  
; APPLICANT: GRAUL, Richard C.  
; APPLICANT: CHAWLA, Narinder K.  
; APPLICANT: LU, Yan  
; APPLICANT: RAMKUMAR, Jayalaxmi  
; APPLICANT: YAO, Monique G.  
; APPLICANT: LAL, Preeti G.  
; TITLE OF INVENTION: CELL ADHESION PROTEINS  
; FILE REFERENCE: PF-0867 USN  
; CURRENT APPLICATION NUMBER: US/10/451,010  
; CURRENT FILING DATE: 2003-06-17  
; PRIOR APPLICATION NUMBER: PCT/US01/49206  
; PRIOR FILING DATE: 2001-12-18  
; PRIOR APPLICATION NUMBER: US 60/256,542  
; PRIOR FILING DATE: 2000-12-18  
; PRIOR APPLICATION NUMBER: US 60/259,604  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: US 60/260,101  
; PRIOR FILING DATE: 2001-01-05  
; NUMBER OF SEQ ID NOS: 20  
; SOFTWARE: PERL Program  
; SEQ ID NO 9  
; LENGTH: 1894  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No: 7156379CD1  
US-10-451-010-9

Query Match 99.9%; Score 9979; DB 16; Length 1894;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1894; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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DB 1 MXAMPNNWTCLLSHLLWVGWGSSTLLTRQAPLSQKQSFVTFRGEPAEGFNHLVVDERT 60  
QY 61 GHYIYGANVRIYKLSDDLKVLVTHETGPDENPKYPRIVOTCNEPLTTTNNVNMMLLI 120  
DB 61 GHYIYGANVRIYKLSDDLKVLVTHETGPDENPKYPRIVOTCNEPLTTTNNVNMMLLI 120

QY 121 DYKENELIACGSILYQGIKCLRLLEDLFLKGEPEYHKHEHYLSGVNESGSGVFGVIVSYNLD 180  
DB 121 DYKENELIACGSILYQGIKCLRLLEDLFLKGEPEYHKHEHYLSGVNESGSGVFGVIVSYNLD 180  
QY 181 DKLFATAVDGPPEYPTTSSRKLTKNSEADGMAFYVHDEFVASMIKIPSTFTTIIIPDF 240  
DB 181 DKLFATAVDGPPEYPTTSSRKLTKNSEADGMAFYVHDEFVASMIKIPSTFTTIIIPDF 240  
QY 241 DIYYVYFSGSGNFVYFLTILQPEMVSPPGSTTKKEQVYVTSKLVRLCKEDTAFNSVEVPIGC 300  
DB 241 DIYYVYFSGSGNFVYFLTILQPEMVSPPGSTTKKEQVYVTSKLVRLCKEDTAFNSVEVPIGC 300  
QY 301 ERSGVEYRLLQAAAYLSKAGAVLGRILGVHPDDDLFTVFESKQKXKXKMSLDSALCIFIIL 360  
DB 301 ERSGVEYRLLQAAAYLSKAGAVLGRILGVHPDDDLFTVFESKQKXKXKMSLDSALCIFIIL 360  
QY 361 KOINDRIKERLQSCYRGEGETLDLAMLKVKDI PCSSALLTIDDNFCGLDNNAPLGVSDMYR 420  
DB 361 KOINDRIKERLQSCYRGEGETLDLAMLKVKDI PCSSALLTIDDNFCGLDNNAPLGVSDMYR 420  
QY 421 GIPVFTEDRDMTSVIAYVYKHSLAFVGTGKGLKKIRVDGPRGNALQYETVQVVDGPG 480  
DB 421 GIPVFTEDRDMTSVIAYVYKHSLAFVGTGKGLKKIRVDGPRGNALQYETVQVVDGPG 480  
QY 481 VLDRMAFSKDHEQLYIMSRQLTRVPSGCGYQSCGECGLSGDGHGCVLHNTCTRKE 540  
DB 481 VLDRMAFSKDHEQLYIMSRQLTRVPSGCGYQSCGECGLSGDGHGCVLHNTCTRKE 540  
QY 541 RCERSKEPRRFASSEMKCQVRLTVHPNNISVSQVNVLLVLETYNVPELSAGVNCFTFEDLSE 600  
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QY 721 TLKAKNLPQOSQORGYECILNIQSGEORVPALRNSVVOCONTSYSEGMEINNLVPE 780  
DB 721 TLKAKNLPQOSQORGYECILNIQSGEORVPALRNSVVOCONTSYSEGMEINNLVPE 780  
QY 781 LTVVNGHFNIDNPAQNKVHLKYCGAMRESGCLKADPDFACGWCQCGQCTLRQHCFA 840  
DB 781 LTVVNGHFNIDNPAQNKVHLKYCGAMRESGCLKADPDFACGWCQCGQCTLRQHCFA 840  
QY 841 QESQWLELSGAKSKCTNPRITEIIPVTPREGGKTIRGENLGLFRDIASHVKVAGVE 900  
DB 841 QESQWLELSGAKSKCTNPRITEIIPVTPREGGKTIRGENLGLFRDIASHVKVAGVE 900  
QY 901 CSPLVVDGYTPAEQIVCEMGEAKPSQAGFVEICVAVCRPEFMARSSQLYFMTLTLSDLK 960  
DB 901 CSPLVVDGYTPAEQIVCEMGEAKPSQAGFVEICVAVCRPEFMARSSQLYFMTLTLSDLK 960  
QY 961 PSRGPMSGGTQVTITGTNLMAGSNVVMFGKQPCLFHRSPSYIVCNTSSSDVLEMKVS 1020  
DB 961 PSRGPMSGGTQVTITGTNLMAGSNVVMFGKQPCLFHRSPSYIVCNTSSSDVLEMKVS 1020  
QY 1021 VQVDRAKIHODLVQVVEDPTIVRIPEWSIVSGNTPIAVWGTHTLDLIONPQIRAKHGK 1080  
DB 1021 VQVDRAKIHODLVQVVEDPTIVRIPEWSIVSGNTPIAVWGTHTLDLIONPQIRAKHGK 1080  
QY 1081 EHINI CEVLNATEMTQAPALAGPHQSDLTTERPEEFGFILDNVQSLILNKNTFTYY 1140  
DB 1081 EHINI CEVLNATEMTQAPALAGPHQSDLTTERPEEFGFILDNVQSLILNKNTFTYY 1140  
QY 1141 NPVFEAPGSGIILEKPGTPIILKGNLIPPVAGGNVKLNYTVLVGKPCCTVTSVDQLL 1200  
DB 1141 NPVFEAPGSGIILEKPGTPIILKGNLIPPVAGGNVKLNYTVLVGKPCCTVTSVDQLL 1200  
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1201 CESFNLIHGKVNARVGGMEYSFGMYIIAPDSPLSLPAIVSIAVAGGLIIFIIVAVLIAY 1260
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1261 KRKSRESDLTLKELQMDNLESRVALECKEFAELQTDIHELTSDLQDAGIPFLDYRTY 1320
1321 TWRVLPFGIEDHEDVLEPVGVRQSRVEKGLKFAQLNNKVFLLSFRTLESQSRSM 1380
1321 TWRVLPFGIEDHEDVLEPVGVRQSRVEKGLKFAQLNNKVFLLSFRTLESQSRSM 1380
1381 RDRGNVASLIMTVLQSKLEATVLAQLLADLIDKNLESKNPKLLIRRTESVAEKMLTN 1440
1381 RDRGNVASLIMTVLQSKLEATVLAQLLADLIDKNLESKNPKLLIRRTESVAEKMLTN 1440
1441 WFTFLYKFKLKECAGELPSLFCALIKQOEKGPIDAITGEARYSLSEDKLIHQDIDYKTL 1500
1441 WFTFLYKFKLKECAGELPSLFCALIKQOEKGPIDAITGEARYSLSEDKLIHQDIDYKTL 1500
1501 VLSVSPDNANSPEVPVKILNCDTITQVKEKILDAIFKNVPCSHRPKAADMLEWRQSG 1560
1501 VLSVSPDNANSPEVPVKILNCDTITQVKEKILDAIFKNVPCSHRPKAADMLEWRQSG 1560
1561 ARMILOBEDITTKIENDWKELNLAHYQVPDGSVVALVSKQVTAYNAVNNSTVSRTSASK 1620
1561 ARMILOBEDITTKIENDWKELNLAHYQVPDGSVVALVSKQVTAYNAVNNSTVSRTSASK 1620
1621 YENMIRYTGSPDSLRGTPMITPDLSSGVKQWHLVKNHEHGDQKEDRGSKMVSEIYLTR 1680
1621 YENMIRYTGSPDSLRGTPMITPDLSSGVKQWHLVKNHEHGDQKEDRGSKMVSEIYLTR 1680
1681 LIATKGTLOKQVDDLETFITSTAHRSALPLAIKYNPFDLEQADKHGHDHVRHTWKS 1740
1681 LIATKGTLOKQVDDLETFITSTAHRSALPLAIKYNPFDLEQADKHGHDHVRHTWKS 1740
1741 NCLPLRFVWNMIKNPQVFDIHNKSTIDACLSSVVAOTFMDSCSTSHRFLGKDSPSNKLAY 1800
1741 NCLPLRFVWNMIKNPQVFDIHNKSTIDACLSSVVAOTFMDSCSTSHRFLGKDSPSNKLAY 1800
1801 AKDIPSKNMYRYSDIGKMPAISQDMMNAYLAEOSRMHMFNTMSALSIFSVYGYK 1860
1801 AKDIPSKNMYRYSDIGKMPAISQDMMNAYLAEOSRMHMFNTMSALSIFSVYGYK 1860
1861 SEELGLDHDGCGKQKAYKLEOVITLMSLDS 1894
1861 SEELGLDHDGCGKQKAYKLEOVITLMSLDS 1894

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RESULT 3

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US-09-964-956-43
; Sequence 43, Application US/09964956
; Publication No. US20040043926A1
; GENERAL INFORMATION:
; APPLICANT: Gerlach, Valerie L
; APPLICANT: MacDougall, John R
; APPLICANT: Smithson, Glennda
; APPLICANT: Millet, Isabelle
; APPLICANT: Stone, David
; APPLICANT: Gunther, Erik
; APPLICANT: Ellerman, Karen
; APPLICANT: Grosse, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine E
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Leach, Martin D
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: No. US20040043926A1e1 Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-124
; CURRENT APPLICATION NUMBER: US/09/964,956
; CURRENT FILING DATE: 2001-09-26

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; PRIOR APPLICATION NUMBER: 60/235,631
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,633
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/235,808
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,064
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,065
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,066
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/236,135
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/237,434
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/238,321
; PRIOR FILING DATE: 2000-10-05
; PRIOR APPLICATION NUMBER: 60/238,399
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/238,396
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/276,667
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/294,823
; PRIOR FILING DATE: 2001-05-31
; PRIOR APPLICATION NUMBER: 60/304,868
; PRIOR FILING DATE: 2001-07-12
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 43
; LENGTH: 1963
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-964-956-43

Query Match 67.9%; Score 6782; DB 12; Length 1963;
Best Local Similarity 66.9%; Pred. No. 0;
Matches 1278; Conservative 238; Mismatches 350; Indels 44; Gaps 9;

QY 23 STLLTROPAPLSQKOR-----SFVTFRGEPAE- 49
DB 60 SRLLT--AAPLSMEQRWPRALEVDRSVVLLSVVLLAPPAAQMPQSTFHSERNRW 117
QY 50 GFNHLVVDERTGHIYLGAVNRIYKLSDDLKVLVTHETGPDENPKYPPRTVQTCNEPLT 109
DB 118 TFNHLTVHOGTGAIVYGAINRVYKLTGNLTQVHAHKTGPEDNKSCTPPIIVQPCSEVLT 177
QY 110 TTNVNMKLLIDYKENRLIACGLYQIGICKLLRLLEDLFKLGEPIYHKEHYLSGVNBSGSV 169
DB 178 LTNVNMKLLIIDYSENRLIACGLYQGVCKLLRLDLDLFILVEPSHKKEHYLSVNVKGTGM 237
QY 170 FGVIVSYNLDLKLFIATAVDGKPEYPTTSSRKLTKNSEADGFAVYFHDEFVASMKI 229
DB 238 YGVIVRSEGEDGKLFITAVDQKQDYPTLSSRKLPRDPSSALMDYELHSDFFVSSLIKI 297
QY 230 PSDTFTIIPDPIVYVYGFSSGNFVYFLTLQPEMVSPG---STTKQVYTSKLVRLCKE 286
DB 298 PSDTIALVSHDFDIYIYGFASGGFVYFLTVQPE--TEGVAINAGDLFYTSRIVRLCKO 355
QY 287 DTAFNSYVEVPICGERSGVYRLLQAAAYLSKAGAVLQRTGLGVHDDDLLFTVFSKGQKQK 346
DB 356 DPKFHSYVSLPFGCTGACVYRLLQAAAYLAKPQGSQAFAFNITSQDDVLFALFSGKQKQY 415
QY 347 MKSLDESALCIFIILKQINDRIKQLQSCYRCEGLTDLAWLKVKDIPCSSALLTIDDDNFCG 406
DB 416 HHPDDSSALCAFFIRAINLQIKGRLOSCYQEGNLELNLWLLGKDVQCTKAPVPIDDNFCG 475
QY 407 LDMNAPLGVSDMVRGIPVFTEDRMTSVIAYVYVYKNSHSLAFVGTYSKGLKKIRVDGPRGN 466
DB 476 LDIINQPLGGSTPVEGLATLTITTSRDMTSSVASYVYVNGYSVVGVTGSKGLKKIRADGPPHG 535
QY 467 ALQYETQVQV--DPGVLEDMAFSKDHQELIYMSRQLTRVPEVSGQYQSGCEGLSGDP 525

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536 GVQYEMSVLKGSPILRDMFAFSDQRYLYMRSQVTRVPVSECEQYITTCGECLSGDP 595  
526 HCGACVLTNCTRKEBERSKEPERPASEMKQCVRLTWHNNISVSQVNVLLVLETNVP 585  
596 HCGACVLTNCTRKEBERSKEPERPASEMKQCVRLTWHNNISVSQVNVLLVLETNVP 655  
586 ELSAGVNTCTFBDLSEMPDLVGNQIQCVSPAACEVPRITENGDDHVVQQLKSKETGMT 645  
656 DLSAGIACAFGNLTVEQVSGSVQICISPGKQVP-VIPLDQWFGLEQLQARSKETGKI 714  
646 PASTSFYFVYACSVHNSCLSVESYRCHWCKYRHCVDHPTKCSFOGRVKLPEDCPOLL 705  
715 FVSTEFKPYNSAHLCLSCVNSAFRCHWCKYRHCVDHPTKCSFOGRVKLPEDCPOLL 774  
706 RVDKILVPEVVIKPTLAKNLPQPSQGRGYECILANTQSGEORVPALRNFSSVQOQNT 765  
775 PTEBILIPVGEVKPITLAKNLPQPSQGRGYECILANTQSGEORVPALRNFSSVQOQNT 834  
766 SYSYEGMEINNLPLVLTWNGHFNIDNPAQKVKHLYKCGAMRESGLCLKADDPFACGW 825  
835 SYQYDGMDSINLAVFAVVMNGNFIDNPQDLKVKHLYKCAQRESGLCLKADDPFACGW 894  
826 CQGPQCTLRQCPAQESQWLELSGAKSKCTNPRITEIPVTGREGGKTVTIRGENLGL 885  
895 CSGERRCTLRQCTSPSPWLDSSHNKCSNPQITELTVSGPPEGTRVTIHGVLGL 954  
886 BPRDIASHVAVGECSPVGVIPDAQIIVCEMGEAKPSQAGFVEICVAVCRPEFARS 945  
955 DFSEIAHVQVAGVCTPLPGEYIAEQIIVCEMGEALVGTTSVGRVLCIGECKEPFRTKS 1014  
946 SQLYVFMILTSLDKSPSGMGGTQVITITGNLGNAGSNVVMFGKQCLPHRRSPSIV 1005  
1015 HQQYTFVNPVLSLNPIRGPPSGGTMVITGHYLGAGSSVAVYLGNTCEFYGRSMSEIV 1074  
1006 C-NTTSSDEVEMKVSQVDRAKIHQDLVQFVEDPTVIRIEPKSVISGNTPIAVGTH 1064  
1075 CVSPSSNGLGPVPSVSDRAHVDNLQFIEDPRVQRIEPEPENSASGHTPLTITGN 1134  
1065 LDLIQNPQIRAKHGGKHEINICEVLNATMTQAPALAGDPHQSDLTERPEEGFILDN 1124  
1135 LDVIQEPRIKRVKNGESVNVCKVNTTILCLAPSLTDYRPGDVTVERDEFGFVFN 1194  
1125 VQSLILNKNTFYYPNVFEAFSPGSGILELKPPTIILKGNLIPVAGNVKLYNTVL 1184  
1195 VQSLILYNDTKFIYYPNTFELLSPGLDQKPGSPFIILKGNLCPASGG-AKLYNTVL 1253  
1185 VGEKCTVSDVOLLCSNPILGRHKMARVGGMEYSPGVYIAPDSPLSIPATVSTAV 1244  
1254 IGETPAVTVSETOLLCEPNTLQHKVNVHVGGMVSPGVSIVSDSLTLPALVSTAA 1313  
1245 AGGLIITFVAVLIAKRSRESDLTLKRLQMDNLSRVALECKEAFELQTDIHELT 1304  
1314 GGSLLLIIVILVIAKRSRENDLTLKRLQMDNLSRVALECKEAFELQTDIHELT 1373  
1305 SLDGAGIFLDYRTYTMVLPFGIEDHVPVLDLEVPGRVQRVEKGLKFAQLINNVF 1364  
1374 SLDRSIGIFLDYRTYTMVLPFGIEDHVPVLDLEVPGRVQRVEKGLKFAQLINNVF 1433  
1365 LLSFIRTLSSQSFMRDRGNVASLIMTVLQSKLEVATDVLKOLLADIDKNLESKNHPK 1424  
1434 LUTFTLTLQSFMRDRGNVASLIMTVLQSKLEVATDVLKOLLADIDKNLESKNHPK 1493  
1425 LLRRTESVAEKMLTNWFTFLYKFKECAGELPLSLFCAIKQOQKEGPIDAITGEARYS 1484  
1494 LLRRTESVAEKMLTNWFTFLYKFKECAGELPLSLFCAIKQOQKEGPIDAITGEARYS 1553  
1485 LSSDKLIROQIDYKTLVLSVSPDNANSPEVPVKILNCDTITQVKEKILDAIFKNVPCSH 1544  
1554 LSSDKLIROQIDYKTLVLSVSPDNANSPEVPVKILNCDTITQVKEKILDAIFKNVPCSH 1613  
1545 RPKAADMLEWROGSGARMLOQEDITTKIENDWKLNTLAHYQVDPGSSWALVSKQVTA 1604

1614 RPRVMDLEWROGSGARMLOQEDITTKIENDWKLNTLAHYQVDRSVVALVPKQTS 1673  
1605 YNAVNNSTVRSASKEYENMIYRTGSPDLASRRTMITPDLSESGYKMMHLVKNHEHGDQK 1664  
1674 YNPASASISRTSISRYDSSFRYTGSPLSRAPMITPDLSESGYKMMHLVKNHEHGDQK 1733  
1665 EDRGSKVSEIYLRLLATKATKTLQKFVDDLEPETIFSTAHGSGALPLAKYMFDFLDEQA 1724  
1734 EDRGSKVSEIYLRLLATKATKTLQKFVDDLEPETIFSTVHRGSAUPLAKYMFDFLDEQA 1793  
1725 DXGHIDHPHRTWKSNCPLPLRFVWNMIKNPQVFDIHKNSITDACLVSVAQTFMDSCST 1784  
1794 DRHSIHDTVTRTWKSNCLPLAFVWVNIKNPQVFDIHKNSITDACLVSVAQTFMDSCST 1853  
1785 SEHRLGKDSFNKLLYAKDIPSKYKMWERYYSIDIGKMPAISODMNAVYLAEGSRHMHNEF 1844  
1854 SEHRLGKDSFNKLLYAKDIPSKYKMWERYYSIDIGKMPAISODMNAVYLAEGSRHMHNEF 1913  
1845 NTMSALSEISFVYGVKSEIILGFLDHDQCGKQKLAKEQVITLMSLDS 1894  
1914 NLSALNEIYSYVSKSEELIGALBQDEQARRQLAYKVEQLINAMSISS 1963

## RESULT 4

US-09-964-956-44  
; Sequence 44, Application US/09964956  
; Publication No. US20040043926A1  
; GENERAL INFORMATION:  
; APPLICANT: Gerlach, Valerie L  
; APPLICANT: MacDougall, John R  
; APPLICANT: Smithson, Glennda  
; APPLICANT: Millet, Isabelle  
; APPLICANT: Stone, David  
; APPLICANT: Gunther, Erik  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Grosse, William M  
; APPLICANT: Alsobrook II, John P  
; APPLICANT: Lepley, Denise M  
; APPLICANT: Burgess, Catherine E  
; APPLICANT: Padigar, Muralidhara  
; APPLICANT: Kekuda, Ramesh  
; APPLICANT: Seytek, Kimberly A  
; APPLICANT: Leach, Martin D  
; APPLICANT: Shimkets, Richard A  
; TITLE OF INVENTION: No. US20040043926A1e1 Proteins and Nucleic Acids Encoding Same  
; FILE REFERENCE: 21402-124  
; CURRENT APPLICATION NUMBER: US/09/964,956  
; PRIOR FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 60/235,631  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/235,633  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/235,808  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,064  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,065  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,066  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,135  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: 60/237,434  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/238,321  
; PRIOR FILING DATE: 2000-10-05  
; PRIOR APPLICATION NUMBER: 60/238,399  
; PRIOR FILING DATE: 2000-10-06  
; PRIOR APPLICATION NUMBER: 60/238,396  
; PRIOR FILING DATE: 2000-10-06  
; PRIOR APPLICATION NUMBER: 60/276,667  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/294,823

6 PRIOR FILING DATE: 2001-05-31  
6 PRIOR APPLICATION NUMBER: 60/304,868  
6 PRIOR FILING DATE: 2001-07-12  
6 NUMBER OF SEQ ID NOS: 127  
6 SOFTWARE: PatentIn Ver. 2.1  
6 SEQ ID NO 44  
6 LENGTH: 1905  
6 TYPE: PRT  
6 ORGANISM: Xenopus laevis  
6 US-09-964-956-44

Query Match 64.0%; Score 6393.5; DB 12; Length 1905;  
Best Local Similarity 63.7%; Pred. No. 0;  
Matches 1222; Conservative 245; Mismatches 396; Indels 55; Gaps 13;  
6 WNTCCLSHLLMVGMSSTLLTRQAPAPLSQKQBSFVTFRGEPAAGFNHVLVDBRTCHYL 65  
14 WTEVLVLLGSIATGDS-----PKDFRTGSD-WSLTHLVHVKTEGVV 58  
66 GAVNRYIKLSSDLKLVLTHTGDEDPNPKCPYRIQTCNEPLTNNVNMKLLIDYKEN 125  
59 GAVNRYIKLNNLTHTVGTGVENKCYPPSPVQSCPHGLITNNVNMKLLIDYSDN 118  
126 RLIAQSLXGICIKLRLLEDLFKLGOPYKHKEHYLSGVNESGVFGVIVSYGNLDDKLF 185  
119 RLIAQSSASQICQFLRLDLDLFKLGPHRKHKEHYLSGVNESGMTSGVIEVPNGQKLFV 178  
186 ATAVDGPEYEPITSSKLTNKEADGMFAVYFHDSEFVASMIKIPISDTFTIIPDPIYV 245  
179 GTPIDGSEYFPILSSKLTNENAMFVQDFVFSQKIPISDTLSKPTFDPIYV 238  
246 YGSSGNFVYFLTLQ--PEMVSPGSGTKEQVQVTSKVLCKEDTAFNSYVEVPIGCSRS 303  
239 YSFSSEQFVYVTLQLDQLTSP--DSTGEQFTSKIVRLCVDDPKFSYVEVPIGCMKD 296  
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297 GVEYRLQAYLSKAGAVLRTGLVHPDDLLFTVSKGOKKMSKSIDESALCIFLTKOI 356  
364 NDRIKERLQSCYRREGTDLAWLKVDIPCSSALLTIDDFCGLDNMNAPLGSDMVRGIP 423  
357 KDKIKERLQSCYRREGTDLAWLKVDIPCSSALLTIDDFCGLDNMNAPLGSDMVRGIP 416  
424 VFTEDRMTSVIAYVYKNSHAFVGTGSKLIRVDGPRGNA--LQYETVQVVDGP 480  
417 LFLDKEDGMSVAAAYDYGHTVWFAGTGRVVKILVDLSASSSHLVQYENVVHEGNA 476  
481 VLDMAFSKDEQLYINSEROLTRVPVSVESQYQSCGCELGSGDPHCGWCVLHNTCTRKE 540  
477 ILRLDLVSPDEQYIYAMTEKQVTPVSVESQYQSCGCELGSGDPHCGWCVLHNTCTRKE 536  
541 RCERSKSPRRFASSEMOCVRLTVHPNNISVQYNVLVLETYNVPELSAGVNCPTFDLSE 600  
537 KCERADELHRTSDQRCVQLTVHPKNIISVTSEVPMVLQANVPDLSAGVNCSEFDTE 596  
601 MDGLVVGNOICYSPAAKEVPRIITENGDDHVVQLKSKETGTMFTASTGTFVFNCSVHN 660  
597 MEGRLDKIYCTSPSAKEVPIYRGHDKXVVKLYLSKETGKGFASVDFVFNCSVHQ 656  
661 SCLSVESPYRCHMKYRHTVDPKTCSPQEGRVKLPEDCPQLLRVDKILVPVEVTKPI 720  
657 SCLSVGNSFPCHWKYRHTVTHNAADCSFOEGRVNMSEDCPQLPSSQIYIPVGVKPI 716  
721 TLKAKNLPQSGGQYECILNIOGSEORVPALFNSSVOCNTSYSEGMEINNLVPE 780  
717 TLTKAKNLPQSGGQYECILNIOGSEORVPALFNSSVOCNTSYSEGMEINNLVPE 776  
781 LTVVNGHFNIDNPANQNHLYKCGAMRESGCLCLKADPDPAFCWCGQPGQCTLRQCPA 840  
777 LSVVNGHFNIDNPANQNHLYKCGAMRESGCLCLKADPDPAFCWCGQPGQCTLRQCPA 836  
841 QESOWLELSGAKSKCTNRIETIIPVTCPRGGIKVTIRGENLGLERDIASHVYKAGVE 900

837 LENPWHASTANSECTDPKITKLPFPETGPRQGGTRLTITGENLGLAFEDIRFGVRVGHVM 896  
901 CSPLVDGYIPABQIVCEMGEA-KPSQAGAVEICVAVCRPEFMARSQLYYFWTLTSLDL 959  
897 CVPVESEYISAEQIVCEINADAGTRVHEAQVEVCVXDCSQDYRAISPKSTFFVLPSNRV 956  
960 KPSRGMSSGGTQVTTITGNLNAGSNVVMFGKPCPLFRRHRSYVIVCNITSSDEVLEMV 1019  
957 TPSRGLSGGTWISIEGNYLNAGSDVSAIGGRPCMFSEWTAKEIRCKTPQGPSTGAEI 1016  
1020 SVQVRAKIHQDLV-FOYVEDPTIVRIEPEWSIVSGNTPIAVWGTHLDLTONQIRAKHG 1078  
1017 QILINRATMNNSEVHYNYTEDPTVQKIEPEWSIASGGTPLIVTGMNLATIKPKIRAKY 1076  
1079 GKEHINICEVLNATEMTCPAPAL--ALGPDHQSDLTERPEEFGLIDNYSQSLILNKN 1135  
1077 DVEKENCTLNDTMTVCLAPSDNPLRSPEND--RPDEIGFINVHALLIVNTTS 1133  
1136 FTYYPNVFEAFSGSILELKPPTIILKGNLPIPPVAGNVKYNLYTVLGEKPCCTVVS 1195  
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1196 DVQLLCSPNLIGRHKVMARVGMVSPGMVYAPDPSPLPAIVSAVAGGLIIIFIVA 1255  
1193 ETQLLCSPNLTGQHKVTIKAGFEYSPGTLQIYSDSLTLPALIGGGGGGLLIILII 1252  
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1253 VLIAYKRSRDAKTLKRLQMDNLESVALECKEAPABEQDIDHELTSDLOGAGIPPL 1312  
1316 DYRYTTRVLPFGIEDHPVLDLEVPYQVQREVEKGLPAQLNNKVFELLSFRTLESQ 1375  
1313 EYRYTTRVLPFGIEDHPVLEMEV---QANVEKSLTFLQGLTKKHFLFTFRTLEAQ 1368  
1376 RSFSMRDRGNVASLIMTVLQSKLEYATDVLKQLADLIDKNLESKNHPKLLRRTESVAE 1435  
1369 RSFSMRDRGNVASLIMTALQEMEYATGVLKQLADLIDKNLESKNHPKLLRRTESVAE 1428  
1436 KMLTNWFTFLYKLEKCEGEPFLSCAIKQOEKGPIDAITGEARYSISEDKLIROOI 1495  
1429 KMLTNWFTFLYKLEKCEGEPFLSCAIKQOEKGPIDAITGEARYSISEDKLIROOI 1488  
1496 DYKTL-----VLSCVSPDNANSPEVPVKILNCDDTITQVKEKILDAL 1536  
1489 DYKTLNCPADDVGLSDESCSRSPQTLNCVNPENENAPEIPVKVLCDDTITQVKEKILDAL 1548  
1537 FQVPCSHRPAKADMDLEWRQSGGARMILQDEDTTKIENDWKRLNTLAHYQVDPGSVA 1596  
1549 YKGVPSYQRPKAGMDLEWRQSGGARMILQDEDTTKIENDWKRLNTLAHYQVDPGSVA 1608  
1597 LVSKQVATYANVNSTVSRKTSASKYENMIRYTGSPDSLSRSTPMITPDLESQVNMHLVK 1656  
1609 LVPKNSAYNLSNSTPTK-SLSRYESMLRTASSPDSLSRSTPMITPDLESQVNMHLVK 1667  
1657 NHEHGDQKGRGSKWSEIYILTRLLATKGTLOKFDVDDLFTETIFSTAHRSALPLAIKYM 1716  
1668 NHDHLDQREGDRGSKWSEIYILTRLLATKGTLOKFDVDDLFTETIFSTAHRSALPLAIKYM 1727  
1717 FDFLEQADKGIHDPHVRHTWKSCLPLRFWNWMIKNPQFVDFIHKNSITDACLSSVVAQ 1776  
1728 FDFLEQADKHOITDYDVRHTWKSCLPLRFWNWMIKNPQFVDFIHKNSITDACLSSVVAQ 1787  
1777 TFMDCSTSEHRLKXDSFNSKLLYAKDIPSYKQWVERYYSDIGKMPAISQDMNAYLABQ 1836  
1788 TFMDCSTSEHRLKXDSFNSKLLYAKDIPSYKQWVERYYSDIGKMPAISQDMNAYLABQ 1847  
1837 SRMHNENFTMSALSEIYSYKYSSEILGPLDHDQCGOKLAVKLEQVITMSLDS 1894  
1848 SRLHLSQFMSALHEIYSITKYRDEILTALEKQEQARRQLRSKLEQVIDTMAQSS 1905

RESULT 5  
US-10-312-352-34

Sequence 34, Application US/10312352	
Publication No. US20040053824A1	
GENERAL INFORMATION:	
APPLICANT: INCYTE GENOMICS, INC.; TANG, Y. Tom	
APPLICANT: YUE, Henry; AZIMZAI, Yalda	
APPLICANT: HE, Ann; BATRA, Sajeev	
APPLICANT: LO, Terence P.; NGUYEN, Dammitel B.	
APPLICANT: BURRILL, John D.; MARCUS, Gregory A.	
APPLICANT: ZINGLER, Kurt A.; GANDHI, Ameena R.	
APPLICANT: LAL, Preeti G.; KEARNEY, Liam	
APPLICANT: BURFORD, Neil; YAO, Monique G.	
APPLICANT: CHAWLA, Narinder K.; ELLIOT, Vicki S.	
APPLICANT: ARVIZU, Chandra S.; KHAN, Farrah A.	
APPLICANT: MARICU, Maria R.; HAFALIA, April, J.A.	
APPLICANT: POLICKY, Jennifer L.; AU-YOUNG, Janice K.	
APPLICANT: LU, Yan; BOROMSKY, Mark L.	
APPLICANT: LU, Dying Aina M.; RAMKUMAR, Jayalaxmi	
APPLICANT: YANG, Junning; GURURAJAN, Rajagopal	
APPLICANT: WARREN, Bridget A.; GIETZEN, Kimberly J.	
APPLICANT: XU, Yuming; KALLICK, Deborah A.	
APPLICANT: LEE, Ernestine A.; THANGAVELU, Kavitha	
APPLICANT: DELEGANE, Angelo M.; LEE, Sally	
TITLE OF INVENTION: EXTRACELLULAR MATRIX AND CELL ADHESION MOLECULES	
FILE REFERENCE: PP-0794 USN	
CURRENT APPLICATION NUMBER: US/10/312,352	
CURRENT FILING DATE: 2002-12-18	
PRIOR APPLICATION NUMBER: PCT/US01/21067	
PRIOR FILING DATE: 2001-06-29	
PRIOR APPLICATION NUMBER: US 60/215,454	
PRIOR FILING DATE: 2000-06-30	
PRIOR APPLICATION NUMBER: US 60/219,462	
PRIOR FILING DATE: 2000-07-18	
PRIOR APPLICATION NUMBER: US 60/240,111	
PRIOR FILING DATE: 2000-10-12	
PRIOR APPLICATION NUMBER: US 60/240,106	
PRIOR FILING DATE: 2000-10-12	
PRIOR APPLICATION NUMBER: US 60/244,021	
PRIOR FILING DATE: 2000-10-27	
PRIOR APPLICATION NUMBER: US 60/248,887	
PRIOR FILING DATE: 2000-11-14	
PRIOR APPLICATION NUMBER: US 60/249,570	
PRIOR FILING DATE: 2000-11-16	
NUMBER OF SEQ ID NOS: 72	
SOFTWARE: PERL Program	
SEQ ID NO 34	
LENGTH: 1896	
TYPE: PRT	
ORGANISM: Homo sapiens	
FEATURE:	
NAME/KEY: misc feature	
OTHER INFORMATION: Incyte ID No. US20040053824A1 7204554CD1	
US-10-312-352-34	
Query Match 63.6%; Score 6357; DB 12; Length 1896;	
Best Local Similarity 64.0%; Pred. No. 0;	
Matches 1213; Conservative 258; Mismatches 401; Indels 22; Gaps 13;	
Qy	11 LLSHLLMVGMSSTLLTQAPLSQKORSFVTERGEPAEGFNHLVVDERTGHIYLGAVNR 70
Db	15 LLLLLLPGMAEAGL---PRAGGSQPPFTFSASD-WGLTHLVVHEQTGEVTVGAVNR 70
Qy	71 IYKSSDLKLVATHETGPDENPKCYPPIRYQTCNEPLTTNNVKNMLIDYKENRLIAC 130
Db	71 IYKLSGNLTLLRAHVTGPVEDNEKCYPPPSVQSCPHGLGSDTNVKNLLLDYAAANRLAC 130
Qy	131 GSLVQIGCKLRLDLFKLGPYKKEHYLGSVNESGSVFGVIYS--YSNLDLKLFTATA 188
Db	131 GSASQGIQCFRLDDLLFKLGPYKKEHYLSVQVAGSAGMGLIAGPPGQQAQLFVGTP 190
Qy	189 VDGPEYPTTSSRLKTKNSADGMFAVVFHDEFVASMIKIPSDFTIIPDFDIYVYGF 248
Db	191 IDGKEYPTTSSRLMANEEDADMFGFYQDEFVSSQLKIPSDTLKFPFADIIYVYSF 250

Qy	249 SSGNFVYFLTLO--PEMVSPPGSTTKQVYTSKLVRLCKEDTAENFSYVEVPICBRSQVE 306
Db	251 RSEQFYVYTLTLDLTQSP--DAAGEHFFTSKIVRLCVDDPKFYSYVEFFPGCEQAGVE 308
Qy	307 YRLQAAYLSKAGAVLGRTLGVHPDDLLFTVFSQGRKMKSLDESALCIFILKQINDR 366
Db	309 YRLVQDAVLSRPGRALAHQGLAEDVDLFTVFAQGRKVRKPPKESALCLFTLRAIKEK 368
Qy	367 IKERLQSCYRGEGTLDLAWLKVKDIPCSALLTIDNFCGLDMNAPLGVSDMVRGIPVPT 426
Db	369 IKERIQSCYRGEGKLSPLWLLNKLKELGINSPLQIDDDFCGQDFNPLGTVTIEGTPLFV 428
Qy	427 EDRDRMTSVIAYVYKNSLAFVGTGSKGLKIRVD--GPRGN-ALQYETVQVVDGPFVLR 483
Db	429 DKDDGLTA VAAVDYRGRTVVFAGTSGRIRKILVLSNPPGGRPALAYSVVAQEGSPILR 488
Qy	484 DNAPSKDHEQLYIMSERQLTRVPVESCQYQSGCISGDBPHCCGCVLHNTCTRKERC 543
Db	489 DLVSPNHOYLYAMTEKQVTRVPEVSCQYTSCELCGSRDHDHCVCVLHSTCSRADACE 548
Qy	544 RSKEPRRFASBMKQCVRLTVTHPNNISVSQYNVLLVLETYNVPELSAGVNCCTFDESMDG 603
Db	549 RADEQRFADLLQCQLTVQPRNVSVTMSQVPLVLAQWNPDLDSAGVNCSEFDETES 608
Qy	604 LVVGNQICYSAPAAKEVPRIITENGDDHVVLQOLSKKETGTMFTFASTSFVYNCVHNSCL 663
Db	609 VLEDGSIHCRSPSAREVAPITRGQGDQORVVKLYLKSKETGKFKFASVDFVYNCVHQSC 668
Qy	664 SCVESPYRCHWKYRHVCTHDKTSFQBGVRVCLPDCQQLLRVDKILVPEVVIKPTIK 723
Db	669 SCVNGSPFCHWKYRHVCTHNVADCAFLGVRVNVSEDCQILPSPQIYVYVGVVAPITLA 728
Qy	724 AKNLPQSGQRYGECILNIQSGEORVPALRPNSSVQCNYSYSGMEINNLVELTV 783
Db	729 AZNLPQSGQRYGECILFHIPGSPARVATLRNSSLQCNSSYSYEGNDVSDLPVNLV 788
Qy	784 VVNGHENIDNPAQNVHLYKCGAMRESGLCLKADPDACGWCQCGOCTLRHQPAQ-E 842
Db	789 VVNGNFVIDNPONIQAHLKCPALRESGLCLKADPFECGVCVAERCSLRHCAADFP 848
Qy	843 SOWLELSGAKSKCTNPRITEIIPVTGPRGGTKVTIRGENLGLFRDIAHVKVAGVGS 902
Db	849 ASWMHARHGSSRCTDPKILKSPETGPRQGGTTLITGENLGLRFEDVRLGVVRGVKLS 908
Qy	903 PLVDGYIPAEQIVCEMGEAKPSQ-HAGFVEICVAVCRPEFMARSQLYVFMTLTSLDLP 961
Db	909 FVESEYISAEQIVCEIGDASSVRAHDALVEVCVRDCSPHYRALSFRFTFTVTFVRSF 968
Qy	962 SRGPMSSGGTQVTTITGNLNGSNVVMFGKQPCLFHRSPSYIVCNCTSSSDEVLEMKSV 1021
Db	969 SRGPLSGGTWIG:EGSHLNAGSDVAVSVGGRPCSFWSRNSREIRCLTPPGQSPGSAPII 1028
Qy	1022 QVDRAKI-HQDLVQVQVEDPTIVRTEPEWSIVSGNTPIAVWGTHLDLIONPOIRAKHGK 1080
Db	1029 NINRAQLTPVEKYNYTETILRIDPEWSINSGGTLLTGTNTLATVREPRIRAKYGI 1088
Qy	1081 EHNICEVLNATEMTQAPALALGPDHQSDLTERPEEFGLDNLVQSLILNKNFTYYP 1140
Db	1089 ERENGCLVNDITMVCRAFSVANPVRSPELGERDELGFVMDVRSLLVNSTSLYYP 1148
Qy	1141 NPVEAFAGSGILELKPQPTIILKGNLI:PPVAGNVKUNYTVLVEKECTTVSDVQLL 1200
Db	1149 DPVLEPLSPTGLLELKPSSPLIKGNLFFP-APGNSRLNYTVLIGSTPCTLTIVSETQL 1207
Qy	1201 CSEPNLIGRHKVMARVGGMEYSPGMVYIAPDPSLSLPAIVSIAVAGGLIIFVAVLIAY 1260
Db	1208 CEPNLTGQHKVTVRAGGFEPFGTLQVYSDLLTLP:PAIVGIGGGGLLLIVAVLIAY 1267
Qy	1261 KRKRSRSDTLKRLQWMDNLSRVALECKEFAELQTDIHELTSLDGAGIPFLDYRTY 1320
Db	1268 KRKRSRDRATLKLQ:QMDNLSRVALECKEFAELQTDIHELTDNDGAGIPFLDYRTY 1327
Qy	1321 TMRVLPFGIEDHVPRLDLEVPGRQVRVEKGLK:LAQLINNKVFLLSFRTLESQRSFSM 1380



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PRIOR APPLICATION NUMBER: 60/253,834
PRIOR FILING DATE: 2000-11-29
PRIOR APPLICATION NUMBER: 60/250,926
PRIOR FILING DATE: 2000-11-30
PRIOR APPLICATION NUMBER: 60/264,180
PRIOR FILING DATE: 2001-01-25
PRIOR APPLICATION NUMBER: 60/274,194
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: 60/313,656
PRIOR FILING DATE: 2001-08-20
PRIOR APPLICATION NUMBER: 60/327,456
PRIOR FILING DATE: 2001-10-05
NUMBER OF SEQ ID NOS: 220
SOFTWARE: CuraseqList version 0.1
SEQ ID NO 81
LENGTH: 1894
TYPE: PRT
ORGANISM: Mus musculus
US-10-087-684-81

Query Match      63.4%; Score 6337; DB 12; Length 1894;
Best Local Similarity 63.5%; Pred. No. 0;
Matches 1209; Conservative 267; Mismatches 408; Indels 20; Gaps 13;

1 MKAMPNNWTCLLSHLLVMGMSSTLLFRQAPATLSQKORSFTVFRGEPAEGFNHLVVDERT 60
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
1 MPUPPLSSRVL LLLLLLLLLLGGVIAITSSPPAGLG-PQAPRTFVASD-WGLTHLVHEQT 58
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

61 GHYLVGAVNRIYKLSDDLKVLVTHETGPDENPKCYPPRIVQTCNEPLTTNNVNKMLLI 120
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
59 GEVYVGAVNRIYKLSGNLTLLRAHVTGFVEDNEKCYPPPSVQSPGHLGSTDNNVKLLLL 118
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

121 DYKENRLIACGSLYQGI CKLLRLDEDLFLKGEPIYHKKEHYLSGVNESGSVFGVIYS--YSN 178
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
119 DYANRLIACGSA SQICQFLRDDLLFKLGEPIYHKKEHYLSGVNESGMAGVLTAGPPGQ 178
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

179 LDDKLFATADVGKPEYFFTTISRKLTKNSEADGMFAIVFPHDEFVASMIKIPSTFTIIP 238
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

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239 DEDYVAVVGESSNEWVETILO--DEMISDPGSTTKENVTSTKIYPLICKPOTAFENSIVIRV 296

27 239 DFDIYVYGFSNGFVIFLLQ--PEMVSPFGSITAEQVITSNTVRLCAEDTAFNSIVEV 296

239 AFDIWWYSESECFVWT.T.OI.DTOL.TSP--DAAGEHEFTSKTVRI.CVNDPKFYSYVEF 296

[illegible]

297 PIGCERSGVEVRLTQAAVTSKAGAVTGRTGVHPDDDDITFTVESKGOKRKMKSLDESAIC 356

[illegible]

297 PIGCEAGVEYRLVODAYLSRPGOALAKOLGLAEDEEVLFTVFAOGOKNRVKPPKESALC 356

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357 IFILKQINDRIKERLQSCYRGEGTDLAWLKVKDIPCSSALLTIDDNFGLDMNAPLGVS 416

[illegible]

357 LFTLRAIKERIQCYRGEGLSPWLNKELGCINSPQLIDDDFCQDFNQPLGGT 416

417 DMVRGIPVFTEDRDRMTSVIAYVYKNHSLAFVGTKSGKLKIRVD--GPRGN-ALQYETV 473

[illegible]

417 VTIEGTFVFVDKEDGLTAAAYDYQGRITVFAGTRSGRIKRLVLDLANPSGRPALAYESV 476

474 AITMPCDQIUT PDMX BGVNUPOT YTMGBBOT TPYIMTECCOOCVACCCCEAT CCGHDPHCOWWMTU H E23

474 QVVDGPGVTRDMAFSNDHEQLTIMSERQLTRVPVESCGQIQSCGECTGSGDGFHCGMVCVTH 533

477 VAOEGNPIT,BDI,W,SPNBOVI,YAMTEKOVTOVPVESCVOVYTSCEI,CI,GSBPDPHCGWCV,H 536

[illegible]

534 NTCTRKERCERSKEPRRFASEMKOCVRLTVHPNNISVSOYNVLLVLETYNVPELSAGVNC 593

[illegible]

537 SICSRQACERAEEPQFASDLLQCVLTVQPRNVSVTMSQVPLVLQAWNVPDLSAGVNC 596

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594 TFEDLSEMDGLVGNQIQCYSPAAKEVPRIITENGDDHVVQLQLKSKETGMTFASTSFVF 653

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597 SFEDFTETESILEDGRIHCHSPSAREVAPITQGQDQRVVKLYLKSKETGKKFASVDFVF 656

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654 YNCVHNCLSCVESPYRCHWCYRHVCTHDPKTCFQEGRVKLPEDCPQLLRVDKILVP 713

[illegible]

657 YNC SVHQSLACVNGSFFCHWC KYRHVC TNNAA DCAFL EGRVNMSEDC FQILPSTHTI YVP 716

714 VEVTKPTTI.KAKNI.POPQSGORGVECTI.NTOGSEORVPAL.BFNSSSVOCNTTSYSYEGME 773

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1



Db 1791 KDSPNKLLYAKDIPNYKSWERYADIAKMPAISDQMSAYLAEQSRHLHSQFNSMAL 1850  
QY 1851 SEIFSIVGKYSEELGLDHDQCKQKQKAYLKEQVITLMSLDS 1894  
Db 1851 HEIYSYIAKYDEILVALEKDEQARRQSRKLEQVDTMALSS 1894

RESULT 7

US-10-218-779-81  
; Sequence 81, Application US/10218779  
; Publication No. US2004002922A1  
; GENERAL INFORMATION:  
; APPLICANT: Edinger, Shlomit  
; APPLICANT: MacDougall, John  
; APPLICANT: Millet, Isabelle  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Stone, David  
; APPLICANT: Gerlach, Valerie  
; APPLICANT: Grosse, William  
; APPLICANT: Alsbrook II, John  
; APPLICANT: Lepley, Denise  
; APPLICANT: Rieger, Daniel  
; APPLICANT: Burgess, Catherine  
; APPLICANT: Casman, Stacie  
; APPLICANT: Spytek, Kimberly  
; APPLICANT: Boldog, Ferenc  
; APPLICANT: Li, Li  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Mishra, Vishnu  
; APPLICANT: Patturajan, Meera  
; APPLICANT: Shetty, Suresh  
; APPLICANT: Rastelli, Luca  
; APPLICANT: Tchernev, Velizar  
; APPLICANT: Vernet, Corine  
; APPLICANT: Zerhusen, Bryan  
; APPLICANT: Malyankar, Uriel  
; APPLICANT: Guo, Xiaojia  
; APPLICANT: Miller, Charles  
; APPLICANT: Gangolli, Bsha  
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same  
; FILE REFERENCE: 21402-214  
; CURRENT APPLICATION NUMBER: US/10/218,779  
; CURRENT FILING DATE: 2002-08-14  
; PRIOR APPLICATION NUMBER: 60/253,834  
; PRIOR FILING DATE: 2000-11-29  
; PRIOR APPLICATION NUMBER: 60/250,-926  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: 60/264,180  
; PRIOR FILING DATE: 2001-01-25  
; PRIOR APPLICATION NUMBER: 60/313,656  
; PRIOR FILING DATE: 2001-08-20  
; PRIOR APPLICATION NUMBER: 60/327,456  
; PRIOR FILING DATE: 2001-10-05  
; NUMBER OF SEQ ID NOS: 216  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 81  
; LENGTH: 1894  
; TYPE: PR1  
; ORGANISM: Mus musculus  
US-10-218-779-81

Query Match 63.4%; Score 6337; DB 12; Length 1894;  
Best Local Similarity 63.5%; Pred. No. 0;  
Matches 1209; Conservative 267; Mismatches 408; Indels 20; Gaps 13;  
QY 1 MKAMPNWTCLSHLLMVGMSSTLLTROPAPLSQKRSFVTRGPAGFPHLVVDERT 60  
Db 1 MPLPPLSSRTLLLLLLLRGVWIAISSPPAGIG-PQPAFTFVASD-WGLTHLVVHEQT 58  
QY 61 GHYVLGAVNRIYKLSDDLKVLVTHETGPDNDPKCYPPRIVOTCNPLTTNNNNKMLLI 120  
Db 59 GEYVGVAVNRIYKLSGNLTLLRAHVTPGVEDNEKCYPPSPVQSCPHGLGSTDNVNKL 118

Db 717 VGVVKTTLAARNLPQSQGQGYECFLFHIFGSPARVTALRNFSSLQCNSSSYSEGND 776  
QY 774 INNLPELVTVVWNGHFNPAQKWHLYKCGAMRESCGLCKLADPDPCAGWCGQPGQCT 833  
Db 777 VSDLPVNLVWVWNGFNVDNPQNIQAHLYKCPALRQSCGLCKLADPRFECGMCVAERCS 836  
QY 834 LRQHCPAQE-SQWLELGAOKSCTNPRITEIIPVTPGREGTKVTRINGENGLFEDFIAS 892  
Db 837 LRHCPADSPASWMAHGHSSRCTDPKILKLSPETGPRQGGTLTITGENGLRFDVRL 896  
QY 893 HVKAVGECPLVDGYIPABQIVCEMGAKPSQ-HAGFVEICVACRPEFMASSOLYXF 951  
Db 897 GVHVGVKLCFVSESEYISAQIVCEIGDASTLRAHDALVEVCVDCSLHYRALSPPKFTF 956  
QY 952 MTULTSLDKPSRGMSSGGTQVTTGTNLAGSNVVMFGKQPCLFHRRSPSYIVCNTSS 1011  
Db 957 VTPFTYRVSPPGLSGGTWIGIEGSHLAGSDVAVSIGRPPCSFWSRNSREIRCLTPPG 1016  
QY 1012 DEVLEKVSVOVDRAKI-HDPLVQVYVEDPTIIVRIEPEWSIVSNTPIAVMGTHLDELION 1070  
Db 1017 HTPOSAPIVININRAQUSNEVKNYTDEDPTILKIDFEMWINSGGTLLITVTGINLATRE 1076  
QY 1071 PQIRAKHGKHEHINICEVLNATEMTQAPALAGPDHQSOLTERPEFEGFILDNVOSLLI 1130  
Db 1077 PRIARAKYGTIERENSCWYNDTWTVCRAPSIDNKRSPPELGERPDEIGFIMDNVRLTV 1136  
QY 1131 LNKNTFTYVNPVPEAGPSGILEKPCPTIILKGNLIIPVAGNVKLVNTVVLGKPC 1190  
Db 1137 LNSSFYVDFVLEPDSPTLLEKSSPILKGRNLLPP-APGNRLNNTVLLIGTTC 1195  
QY 1191 TTVTSDVQLLCEPNLGRHKVWARGVMEYSPGMVYIADPSLSPALVSIYAVAGLLI 1250  
Db 1196 ILTVSETQLLCEAPNLATGQHKVTVRAGGFEPSCMLQVYSDSLTLLPAIVIGIGGGGLL 1255  
QY 1251 IFIVAVLIAYKRSRDLTKRLQMDNLESVALAECKEAPAELOTDHELTSLDGA 1310  
Db 1256 LVIIVAVLIAYKRSRDLTKRLQMDNLESVALAECKEAPAELOTDHELTSLDGA 1315  
QY 1311 GIPFLDYRTVMVLFPGIEDHPVLRDLEVPYQERVEKGLKFAQLINNKVFLSFR 1370  
Db 1316 GIPFLDYRTVMVLFPGIEDHPVLEKMEV---QANVEKSLTIFGQLLKKGFLTFIR 1371  
QY 1371 TLESQSFMSDRGNVASLIMTVLQSKLEYATDVLKOLLADIDKNLESKNHPKLLRRT 1430  
Db 1372 TLEAQSFSMSDRGNVASLIMTALQGEYATGVLKQLLSLIEKNLESKNHPKLLRRT 1431  
QY 1431 ESWAEKMLTNNFTFLLYKFLKCEAGEPLFLFCALQKQMEKGPIDAITGEARYSLSDKL 1490  
Db 1432 ESWAEKMLTNNFTFLLYKFLKCEAGEPLFLMYCALQKQMEKGPIDAITGEARYSLSDKL 1491  
QY 1491 IRQIDYKTLVLSVSPDNANSPEVPVKILNCDDTIITQVEKILDAIFKNVPCSHRPKAD 1550  
Db 1492 IRQIDYKTLVLSVSPDNANSPEVPVKILNCDDTIITQVEKILDAIFKNVPCSHRPKAD 1551  
QY 1551 MDLEWROSGARMILQDEDTTKIENDWKRLNTLAHYQVDPGVSVALVSKOVTAYNVN 1610  
Db 1552 MDLEWROSGARMILQDEDTTKIENDWKRLNTLAHYQVDPGVSVALVSKOVTAYNVN 1611  
QY 1611 STVTSATSAYENMIRYTGSPDSLSRTPMITPDLESQVQWHLVKNHEHGDQEGDRGS 1670  
Db 1612 STFTK-SLSRYESMLRTASSPDSLSRTPMITPDLESQVQWHLVKNHEHGDQEGDRGS 1670  
QY 1671 KMWISIYLTRLLATKTLQKFDVDDLFETIFSTAHRGSLALPAIKYMPDFLDEQADKHQIH 1730  
Db 1671 KMWISIYLTRLLATKTLQKFDVDDLFETIFSTAHRGSLALPAIKYMPDFLDEQADKHQIH 1730  
QY 1731 DPHVHTWKSNCPLRFVWVNMKNPQFVFDIHKNSITDACLSVVAQTMDSCSTSEHRLG 1790  
Db 1731 DSDVHTWKSNCPLRFVWVNMKNPQFVFDIHKNSITDACLSVVAQTMDSCSTSEHRLG 1790  
QY 1791 KDSPNKLLYAKDIPSYKSWERYSDIGKMPAISDQDMNAYLABQSRMHNNEFTMSAL 1850





Db 1700 SEIYLTRLLATKGTGTLQKQFVDDLFETIFSTAHGSLALPAILKYNFDFLDEQADKHQIHDA 1759  
 Qy 1733 HVHRTWKSNC-LPLRFWNNMIKPNQFVFDIHKNSITDACLSSVVAQTFFMDSCSTSEHRLGK 1791  
 Db 1760 DVHRTWKSNC-SPLRFWNNMIKPNQFVFDIHKNSITDACLSSVVAQTFFMDSCSTSEHKLCK 1819  
 Qy 1792 DSSNKLLYAKDIPSKYKWTY-RRYSIDIGKMPAISQDQKAYLAEQSRHMHNEFNTMSAL 1850  
 Db 1820 DSSNKLLYAKDIPNYSKWERRYADIAKMPAISQDQKAYLAEQSRHMHNEFNTMSAL 1879  
 Qy 1851 SEIFSYVGYKSEE--IIGPLDHDQDQCKQKAYLAEQSRHMHNEFNTMSAL 1894  
 Db 1880 HEIVSYITKYKDEVDQVILLAEKDEQARRQLRSKLEQVVDVTMALSS 1925

RESULT 9

US-10-218-779-32  
 ; Sequence 32, Application US/10218779  
 ; Publication No. US20040029222A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Edinger, Shlomit  
 ; APPLICANT: MacDougall, John  
 ; APPLICANT: Millet, Isabelle  
 ; APPLICANT: Ellerman, Karen  
 ; APPLICANT: Stone, David  
 ; APPLICANT: Gerlach, Valerie  
 ; APPLICANT: Grosse, William  
 ; APPLICANT: Alsobrook II, John  
 ; APPLICANT: Lepley, Denise  
 ; APPLICANT: Rieger, Daniel  
 ; APPLICANT: Burgess, Catherine  
 ; APPLICANT: Casman, Stacie  
 ; APPLICANT: Spytek, Kimberly  
 ; APPLICANT: Boldog, Ferenc  
 ; APPLICANT: Li, Li  
 ; APPLICANT: Padigan, Muralidhara  
 ; APPLICANT: Mishra, Vishnu  
 ; APPLICANT: Patturajan, Meera  
 ; APPLICANT: Shenoy, Suresh  
 ; APPLICANT: Rastelli, Luca  
 ; APPLICANT: Tchernev, Velizar  
 ; APPLICANT: Vernet, Corine  
 ; APPLICANT: Zerhusen, Bryan  
 ; APPLICANT: Malyankar, Uriel  
 ; APPLICANT: Guo, Xiaojia  
 ; APPLICANT: Miller, Charles  
 ; APPLICANT: Gangoli, Esha  
 ; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same  
 ; FILE REFERENCE: 21402-214  
 ; CURRENT APPLICATION NUMBER: US/10/218,779  
 ; CURRENT FILING DATE: 2002-08-14  
 ; PRIOR APPLICATION NUMBER: 60/253,834  
 ; PRIOR FILING DATE: 2000-11-29  
 ; PRIOR APPLICATION NUMBER: 60/250,-926  
 ; PRIOR FILING DATE: 2000-11-30  
 ; PRIOR APPLICATION NUMBER: 60/264,180  
 ; PRIOR FILING DATE: 2001-01-25  
 ; PRIOR APPLICATION NUMBER: 60/313,656  
 ; PRIOR FILING DATE: 2001-08-20  
 ; PRIOR APPLICATION NUMBER: 60/327,456  
 ; PRIOR FILING DATE: 2001-10-05  
 ; NUMBER OF SEQ ID NOS: 216  
 ; SOFTWARE: Patent In Ver. 2.1  
 ; SEQ ID NO 32  
 ; LENGTH: 1925  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-218-779-32

Query Match 62.7%; Score 6267.5; DB 12; Length 1925;  
 Best Local Similarity 63.7%; Pred. No. 0;  
 Matches 1214; Conservative 260; Mismatches 397; Indels 35; Gaps 23;

Qy 11 LLSHLLMVGMSSGSLTLLTROAPAPLSQKORSFVTRGEPAGFNHLVVDERTGHIYLGAVNR 70  
 Db 33 LLLLLPGLMABEAGL--PRAGGSGOPFFRTFSASD-WGLTHLVVHEQTGEVTVGAVNR 88  
 Qy 71 IYKLSDDLKVLAVTHETGPDENPKCYPRIVOTCNEPLTTNNVNNKLLLDYKENRLIAC 130  
 Db 89 IYKLSGNLTURAHVTGVEDNEKCYPPSPVQSCPHGLGSDNNVNNKLLLDYAAANRLIAC 148  
 Qy 131 GSLYGGICLKLRLEDFKLGEYHKKHGLSYLGNVSGSVFQVIVS--YSNLDLKLFIATA 188  
 Db 149 GSASGICQFURLDDLKFLGEPHKKHGLSYLGNVSGSVFQVIVS--YSNLDLKLFIATA 208  
 Qy 189 VDGKPEYPTISSRKLTKNSEADGMPAYVPHDEVASMIKIPSTFIIIPDFDIYVYVGF 248  
 Db 209 IDGKSEYPTLSSRRRLMANEEDADMFGFVYQDEVFSSQLKIPSDTLKFAFDIYVYVGF 268  
 Qy 249 SSGNFVYFLTLQ--PEMVSPGSGTSTKQVYTSKLVRLCKEDTAFNSVVEVPIGCSGVE 306  
 Db 269 RSEQFVYVLTQLDTLQTSPP--DAAGEHFTSKIVRLCVDKPKFYSVVEPIGCEQAGVE 326  
 Qy 307 YRLQAAYLSKAGAVLGRITGVHDDLLFTVFSKGOKRKMKSLLDEALCIFIILKQINDR 366  
 Db 327 YRLVQDAYLSRPGALAHQGLAEDEVLFTVFAQGOKRNVKPKESALCLFTLRAIKK 386  
 Qy 367 IKERLQSCYRGEGTDLAWLKVKDIPGSSALLTIDDNFCGLDMNAPLGSDMVRGIPVFT 426  
 Db 387 IKERLQSCYRGEGTDLAWLKVKDIPGSSALLTIDDNFCGLDMNAPLGSDMVRGIPVFT 446  
 Qy 427 EDRDMTSVIAYVTKNLSLAFVGTSGKLKIRVD--GPRGN-ALQYETVQVDPGVLR 483  
 Db 447 DKDGLTAVAAAYDRGTWTFAGTRSGIRKILVDLSPGSRPALAYSVVQAQSGSILR 506  
 Qy 484 DWAFSKDEOLYIMSEROLTRVPVSVESQGVSCGCEGLSGDPHGCWGLHNTCTRKERCE 543  
 Db 507 DLVLSPNHLYIYAMTEKQVTEVPVSVESQGVSCGCEGLSGDPHGCWGLHNTCTRKERCE 566  
 Qy 544 RSKPRRPFASMKOCVRLTVHPNNISVSQVNV-LLVLETYVNPBLSAGVNTFFDLSEMD 602  
 Db 567 RADEPQFPAADLLQCVLTQVPRNVSVTMSQVPLVQLQAMNVPDLSAGVNSCFDFTSE 626  
 Qy 603 GLAVGNQIQCYSPAKEVPRII--TENGDDHVVOLQKSKETGTFEASTSVFVNCVSH- 659  
 Db 627 SVLEDRGHCRSPAREVAPITRGQEGDQVWKLKSKETGTFEASTSVFVNCVSH- 686  
 Qy 660 NSCLSCVSPYRCHWKYRHYVCTHDKPTCSQEGRVKLPEPCQLLRVDRKILVPEVVKP 719  
 Db 687 SSCLSCVNGSPFCHWKYRHYVCTHDKPTCSQEGRVKLPEPCQLLRVDRKILVPEVVKP 746  
 Qy 720 ITLAKNLPQSGGORGVECTINLQSGEORVPALRNSSSVQCONTSYSVEGMEINLPV 779  
 Db 747 ITLAKNLPQSGGORGVECTINLQSGEORVPALRNSSSVQCONTSYSVEGMEINLPV 806  
 Qy 780 ELTVVWNGHFNIDNPAQNKVHYKCGAMRESGCLKADPDPFACGQCGQCTLRQHP 839  
 Db 807 NLSVWVNGFNIDNPAQNKVHYKCGAMRESGCLKADPDPFACGQCGQCTLRQHP 866  
 Qy 840 AQ-ESQWLELSGAKSKCTNPRITELIIPVTGREGTKVTIRGENLGEFFDIASHVKVAG 898  
 Db 867 ADTASWVHARHGSRCCTDPKILKLSPETGREGTKVTIRGENLGEFFDIASHVKVAG 926  
 Qy 899 VECSPLDVGYIPAEQIVCEMGEAKPSQ-HAGFVEICVAVCRPEFMASSOLYFMTLTL 957  
 Db 927 VLSGPESEYISAEQIVCEMGEAKPSQ-HAGFVEICVAVCRPEFMASSOLYFMTLTL 986  
 Qy 958 DLKPSRGPMSCGTQVTTIGTNLHAGSNVVMFGQPCFLF--HRRSPYIVCNTTSSDEVL 1015  
 Db 987 RVSPSRGPMSCGTQVTTIGTNLHAGSNVVMFGQPCFLF--HRRSPYIVCNTTSSDEVL 1046  
 Qy 1016 EMKYSVQVDRAKI-HQDLVFOYVEDPTVRIPEWSIVSGNTPFVAVGTHDLQNFQIR 1074  
 Db 1047 SAPIIINRAQLTNPEVKYNYTEDPTILRIDPWSINSGLTLTGTNLATVREPRIR 1106  
 Qy 1075 AKHGKHEHINTCEVLNATEMTQAPALALGPDHDSDLTERPEFEGFILDNVQSLILNKT 1134

Db 1107 AKYGGIEREN-CLVYNDITWVCRAPSVANPVRSPPGELGERPDELGFYMDNVRSLVLNST 1165  
Qy 1135 NFTYYPNPFVFAFGPSGILEKPGTPIILKGNLIPPVAGNVKNTVLVGEKPCPTVTV 1194  
Db 1166 SFLYYPPVPLPSPTGLLEKLPSSPLIKGNLPP-APGNSRLNTVLIGSTPCTLTV 1224  
Qy 1195 SDVOLLCEPNLIGRHKMARVGMVSPGMVYIAPDSPISLPAIVSIAVAGLLIIFIV 1254  
Db 1225 SETQLLCEAPNLTQGHKVTYVRAGFEFSPGLQVYSDSLTLPALVIGGGGGLLIV 1284  
Qy 1255 AVLJAYKRSRESLTLKRLQOMDNLESVALCKEAFALQTDIHELTSDDGAGIPF 1314  
Db 1285 AVLJAYKRSRDAUTLKLQLOQNDNLESVALCKEAFALQTDIHELINDLDGAGIPF 1344  
Qy 1315 LDYTYTMRVLFPQIEDHPVLRDLVPGYQROREVKEGLKLPALQINNKKVFLSPFRTLES 1374  
Db 1345 LDYTYTMRVLFPQIEDHPVLEKEV---QANVEKSLTTFGQLTKKHFLLTFRTLEA 1400  
Qy 1375 QRSFSMDRGNVASLIMTVLQSKLEYATDVULKQLLADLIDNLESKNHPKLLLR--TESV 1433  
Db 1401 QRSFSMDRGNVASLIMTALOGENEYATGVULKQLLSDLIEKNLESKNHPKLLLRPTESV 1460  
Qy 1434 AEKMLTNWFTLLYKFKGECAGEPLFSLCAIKQOMEKGPIDAITGEARYSLSEDKLIRQ 1493  
Db 1461 AEKMLTNWFTLLYKFKGECAGEPLFMYCAIKQOMEKGPIDAITGEARYSLSEDKLIRQ 1520  
Qy 1494 QIDYKTLVLCVSPDNANSPEVPVKILNCDITQVKEKILDAIFKNVPCSHRPAADM 1553  
Db 1521 QIDYKTLVLCVSPDNANSPEVPVKILNCDITQVKEKILDAIFKNVPCSHRPAADM 1580  
Qy 1554 EWROGSGARMILQEDDITTKIENDWKRLNTLAHYQVDPGVSVALVSQVTAYNVNSTV 1613  
Db 1581 EWROGSGARMILQEDDITTKIENDWKRLNTLAHYQVDPGVSVALVSQVTAYNVNSTV 1640  
Qy 1614 SRTSASKYENMIRYTGSPDSLSRSTPMITPDLGSKVWHLVKQHEHGDQEGDRGSKMV 1673  
Db 1641 TK-SLSRYESMLRTASSPDSLSRSTPMITPDLGSKVWHLVKQHEHGDQEGDRGSKMV 1699  
Qy 1674 SEIYLTRLATK-GTLQKFVDLDPETTFSTAHRSALPLAIKYMFDLDEQADKHGHP 1732  
Db 1700 SEIYLTRLATKQGTLOKFVDLDPETTFSTAHRSALPLAIKYMFDLDEQADKHGHP 1759  
Qy 1733 HVRHTWKNC-LPFRFWNMINKQFVFDIHNKSIDACLVSVAQTQWDCSTSEHLGK 1791  
Db 1760 DVHRTWKSNCPLRFLFWNVYKIQFVFDIHNKSIDACLVSVAQTQWDCSTSEHLGK 1819  
Qy 1792 DSPSKLLYAKDIPSYKNWVE-RYVSDIGKMPAISDQDMNAYLAEQSRMHMVEFTWSAL 1850  
Db 1820 DSPSKLLYAKDIPSYKNWVE-RYVSDIGKMPAISDQDMNAYLAEQSRMHMVEFTWSAL 1879  
Qy 1851 SEIFSYGKXISE--ILGPLDHDQCGKQKLAYKLEQVITLMSLDS 1894  
Db 1880 HEIYSYIKYKDEVOILAALKEQARQRLRSKLEQVVDTWALSS 1925

RESULT 10  
US-09-964-956-42  
; Sequence 42, Application US/09964956  
; Publication No. US20040043926A1  
; GENERAL INFORMATION:  
; APPLICANT: Gerlach, Valerie L  
; APPLICANT: MacDougall, John R  
; APPLICANT: Smithson, Glenda  
; APPLICANT: Millet, Isabelle  
; APPLICANT: Stone, David  
; APPLICANT: Gunther, Erik  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Grosse, William M  
; APPLICANT: Alsbrook II, John P  
; APPLICANT: Lepley, Denise M  
; APPLICANT: Burgess, Catherine E  
; APPLICANT: Padigaru, Muralidhara

; APPLICANT: Kekuda, Ramesh  
; APPLICANT: Spytek, Kimberly A  
; APPLICANT: Leach, Martin D  
; APPLICANT: Shinkets, Richard A  
; TITLE OF INVENTION: No. US20040043926A1el Proteins and Nucleic Acids Encoding Same  
; FILE REFERENCE: 21402-124  
; CURRENT APPLICATION NUMBER: US/09/964,956  
; CURRENT FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 60/235,631  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/235,633  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/235,808  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,064  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,065  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,066  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,135  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: 60/237,434  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/238,321  
; PRIOR FILING DATE: 2000-10-05  
; PRIOR APPLICATION NUMBER: 60/238,399  
; PRIOR FILING DATE: 2000-10-06  
; PRIOR APPLICATION NUMBER: 60/238,396  
; PRIOR FILING DATE: 2000-10-06  
; PRIOR APPLICATION NUMBER: 60/276,667  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 60/294,823  
; PRIOR FILING DATE: 2001-05-31  
; PRIOR APPLICATION NUMBER: 60/304,868  
; PRIOR FILING DATE: 2001-07-12  
; NUMBER OF SEQ ID NOS: 127  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 42  
; LENGTH: 1871  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-09-964-956-42

Query Match 60.0%; Score 5994; DB 12; Length 1871;  
Best Local Similarity 60.0%; Pred. No. 0;  
Matches 1133; Conservative 295; Mismatches 435; Indels 26; Gaps 13;

Qy 10 CLLSHLVGMSSLTITLQAPLQKQKRSFVTFRGEPAEGFNHLVVDERTGHVLYGAVN 69  
Db 5 CLLL-LLFVAGGA--LGNRPF-----RAFV-----TDTTLTHLAHVTVGEVFGAVN 51  
Qy 70 RIYKLSDLKVLVTHETGPDENPKYPPRIYQTCNEPLTTTNNVNMKLLIDYKENRLIA 129  
Db 52 RVFKLAPNLTELRAHVTPGVEDNARCYPPPSMRVCAHRLAPVDNINKLLIDYAAARLVA 111  
Qy 130 CGSLYQIGICKLJLEDLFKLGEFPHKHEHLYSGVNESGSVFGVIVSYNLDLKLFTATAV 189  
Db 112 CGSIWQIGICQFLRLDLDLFLKLGEPHHRKHEHLYSGAOEPDSMAGVIVEQGGPSKLFVGTAV 171  
Qy 190 DGKPEYFPTISRSKLTNKEADGMFAVPHDFVFAVSMIKIPSDTFTIIPDFDIYYVYGF 249  
Db 172 DGKSEYFPTLSRSKLTNKEADGMFAVPHDFVFAVSMIKIPSDTFTIIPDFDIYYVYGF 231  
Qy 250 SGNFVIFLQPEMWSPPGSTTKEQVTSKLVRLCKEDTAFNSYVVEVPGCERSGYEYKL 309  
Db 232 SASFVYFVLQDLDLQDQTLTDTAGKEFTSKIVRMCAAGDSEFYVEFPFGCWRGVEYKL 291  
Qy 310 LQAAVLSKAGAVLGRTLGVHPDLDLFTVFSKQKMKSLDESALCICFILKQINDRIKE 369  
Db 292 VQSAHLAKPGLLAQALGVPADEDLVFTIFSQQKRAFPFRQTILCLTSLNNAHRR 351  
Qy 370 RLOSCVRGEGTLDLAWLKVKDIPCSSALLTIDNFCGLDMNAPLGVSDMVRGIPVFTEDR 429

Db 1424 LHKFLKBCAGEPLFLYCAIKQOMKGPIDAITGEARYSLSEDKLIRQIDYKTLTLHCV 1483  
Qy 1506 SPDNANSPFVPVKILNCOTITOVKEKILDAIFKNVPCSHRPAKADMDLEWRQSGARMIL 1565  
Db 1484 CPENEGSAQFVKVYLNCDSTOAKDKLLDTVYKIGIPYSQRPKADMDLEWRQSGARMIL 1543  
Qy 1566 QDEITTKIENDWKRLNLTALHYQVPGDGVVALYVKQVTAYNVANNSTVSTASAKYENMI 1625  
Db 1544 QDEVTTKIECDWKLNSLAHYQVTDGSLVALVPQVSAYNMANSFTFTR-SLSRYESLL 1602  
Qy 1626 RYTGSPDLSRTPMTIPDLESQVGMHLVKNHEHGDQKGGDRGSKVSVSEIYTLRLATK 1585  
Db 1603 RTASSPDLASRAEMITPDQETGTLKHLVKNHHDHADHREGDRGSKVSEIYTLRLATK 1662  
Qy 1686 GTLKQFVDDLPETIFSTAHRSALPLAIKYMFDLDEQADKHGHDHDPHVTWKSNCPL 1745  
Db 1663 GTLKQFVDDLPETIFSTAHRSALPLAIKYMFDLDEQADKHGHDHDPHVTWKSNCPL 1722  
Qy 1746 RFWNMKNPQFVDIHNSTIDACLSVAQTFMDSCTSEHRLGKQSPNKLLIYAKDIP 1805  
Db 1723 RFWNMKNPQFVDIHNSTIDACLSVAQTFMDSCTSEHRLGKQSPNKLLIYAKDIP 1782  
Qy 1806 SYKXWVRYSDICKMPAISDODMNVYLABQSRMHMNEFTMSALSIFSVGKYSEIL 1865  
Db 1783 NYKSWERYRDIAKMASISDODMDAYLVQSRHLHSDFSVLNLSNELYFVTKYRQEL 1842  
Qy 1866 GPLDHDQCGKQKLAAYKLEQVITLMSLDS 1894  
Db 1843 TALDRDASCRRKHLRQKLEQIISLVSDS 1871

RESULT 11

US-10-087-684-84  
; Sequence 84, Application US/10087684  
; Publication No. US20040029116A1  
; GENERAL INFORMATION:  
; APPLICANT: Edinger, Shlomit R.  
; APPLICANT: MacDougall, John R.  
; APPLICANT: Millet, Isabelle  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Stone, David J.  
; APPLICANT: Grosse, William M.  
; APPLICANT: Lepley, Denise M.  
; APPLICANT: Rieger, Daniel K.  
; APPLICANT: Burgess, Catherine E.  
; APPLICANT: Casman, Stacie, J.  
; APPLICANT: Spytek, Kimberly A.  
; APPLICANT: Boldog, Ferenc L.  
; APPLICANT: Li, Li  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Mishra, Vishnu  
; APPLICANT: Shenoy, Suresh G.  
; APPLICANT: Rastelli, Luca  
; APPLICANT: Tchernev, Velizar T.  
; APPLICANT: Zethusen, Bryan D.  
; APPLICANT: Malyankar, Uriel M.  
; APPLICANT: Guo, Xiaojia  
; APPLICANT: Miller, Charles E.  
; APPLICANT: Gangolli, Baha A.  
; TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS ENCODING SAME  
; FILE REFERENCE: 21402-214 CIP  
; CURRENT APPLICATION NUMBER: US/10/087,684  
; CURRENT FILING DATE: 2003-03-10  
; PRIOR APPLICATION NUMBER: 60/253,834  
; PRIOR FILING DATE: 2000-11-29  
; PRIOR APPLICATION NUMBER: 60/250,926  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: 60/264,180  
; PRIOR FILING DATE: 2001-01-25  
; PRIOR APPLICATION NUMBER: 60/274,194  
; PRIOR FILING DATE: 2001-03-08  
; PRIOR APPLICATION NUMBER: 60/313,656

Db 352 RIOSVRGEGTALFWLNKELFCINTPQINGNFCGLVNLQPLGLHVGIEGLPLADST 411  
Qy 430 DRMTSVIAYVXNHSALFVGTGSKLKRIVDQFGRNALQYETQVVDVDPGLRDMWFSK 489  
Db 412 DGMASVAAAYTRQHSVVFITGRSGLSKVRVDGQ-DAHYETVFPVVDGSPILRDLFSP 470  
Qy 490 DHEQLYMSRQITRVPVSCGOYQSGCEGLSGDPHCWCVLHNTCTKERCESKEPR 549  
Db 471 DHRHITLSSKQVSLQFVETCEYQSCAALGSGDPHCWCVLHNTCCREGACLGASAP 530  
Qy 550 RFASEMKQCVRLTVHPNNISVSQYNVLLVLETYNPELSAGVNCCTFEDISEMDG-LVWGN 608  
Db 531 GFABELSKCVOVRPNVSVTSPGVQLTVTLHNVPLDSAGVSCAPEAAAEAVLLPSG 590  
Qy 609 QIOCYSPAKEVPRITITENGDDHVVOLQKSKTGMTFASTSVFVNCVSHNSCLSCVBS 668  
Db 591 ELLCPSPSLQELRALTRGHGATVRLQLLSKETGVRFAADVFVNCVSLQSCMSVGS 650  
Qy 669 PYRCHWKYRHVTHDPKTCSEFQEGRVKLPEDCPQLLRVDKILVPEYIKPITLAKRNLP 728  
Db 651 PYRCHWKYRHTCTSRPHECSFQEGRVHSGPCEILPGDULLIPGVNQPLTLRAKNLP 710  
Qy 729 QPQSGQGYECILNIQSGEORVPALRFNSSVOCNTSYSGEIMNLPVLTVMWNGH 788  
Db 711 QPQSGQGYECVVRVQROVRPAVRFNSSVQCNASYSYEGDEHGDTELDFFVVWDGD 770  
Qy 789 FNIDNPAQNKHLYKGCAMRESGLCLKADPDFACGCGQPGCTLRQHCPAQESQWLEL 848  
Db 771 FPIDKPSPRALLYKQWAPRSCGLCLKADPRENCGWCISEHRCQLRTHCPAPKTNMEL 830  
Qy 849 SGAKSKCTNPRIETIPVTPGREGGTVIRGENLGLPRDIASHVYKAGVCECPLVDQY 908  
Db 831 SQXGTRCSHPRIITQIHLVPGKGGTRVTVIGNLGLLREVG--LRVAGVRCNSIPASY 888  
Qy 909 IPAEQIVCEMGEA-KESQAHGAFVEICVAVCRPFMARSSQLYYFMTLTLSDLKPSRGPMS 967  
Db 889 ISAEIVCEMESLVSPPPGVELCVGDCSADFRQSEQVYSFVTFDQVSPSGPAS 948  
Qy 968 GTQVTTTGNLHAGSNVVMFKQKPCLFHRRSPSIVC-NTTSSDEVLEMKVSVQVDR 1026  
Db 949 GGTRLTSSGLDAGSRVTVVDRSECFVRDRAKAVICISPLSTLGPQAPITLADRA 1008  
Qy 1027 KIHQ-DLAVFOVDRPTIVRTEPWSIVSGNTPVAVMGTHLDLQNPQIRAKHGKHEINI 1085  
Db 1009 NISSPGLIYTTQDPTVRLPWSIINGSTATVSGTHLLTVQEPVRVAKYRGITWT 1068  
Qy 1086 CEVLNATEMTQAPALAGDPHQSDLTERPEEFGLDNVQSLILNKNFTYYPNVPFE 1145  
Db 1069 CQVINDTAMLCAPGIFLGRPQRAQGEHPDEFGLLDHVTQARSNRSSTYYPDPSPFE 1128  
Qy 1146 AFGSGILELKPPTIILKGNLIPPVAGGNVNLVTVLGEKPCVTYVSDVOLLCESPN 1205  
Db 1129 PLGSGVLDVPGSHVVKGNLIPAAAGSS-RUNYTVLIGGQPCSLTVSDTQLLCSFS 1187  
Qy 1206 LIGRHKYMARVGGMEYSPGMVYIAPDPSLPAIVSIAVAGGLIIFIVAVLIAYKRKR 1265  
Db 1188 QTGRQPVVVLVGGLEFWLGTILHISAERALTLPAMMGLAAGGLLLAITAVLVAYKRKTQ 1247  
Qy 1266 ESDTLKELQOMNLSRVALECKEAPFLOTDIHELTSDDLQAGTFLDYTYMVRVL 1325  
Db 1248 DADTLKRLQOMNLSRVALECKEAPFLOTDINELTHMDEVQPFLLDYTYAVRVL 1307  
Qy 1326 PFGIEDHPVLRDLVPGYQERVEKGLKFAQLINKNVFLLSFIRLESQSFESMRDRGN 1385  
Db 1308 PFGIEAPVLEKELDTP---PNVEKALRLFQLLHSAFVLTFHTLEAQSSFSMRDRGT 1363  
Qy 1386 VASIMTVLQSKLYATDVLKQLLADLIDKNLESKNHPKLLRRTESVAEKMLTNMFTFL 1445  
Db 1364 VASIMTVLQSKLYATDVLKQLLADLIDKNLESKNHPKLLRRTESVAEKMLTNMFTFL 1423  
Qy 1446 LYKFLKBCAGEPLFLFCAIKQOMKGPIDAITGEARYSLSEDKLIRQIDYKTLVLCV 1505



; PRIOR FILING DATE: 2001-08-20  
 ; PRIOR APPLICATION NUMBER: 60/327,456  
 ; PRIOR FILING DATE: 2001-10-05  
 ; NUMBER OF SEQ ID NOS: 220  
 ; SOFTWARE: CuraseqList version 0.1  
 ; SEQ ID NO 84  
 ; LENGTH: 1871  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc feature  
 ; LOCATION: (380)..(380)  
 ; OTHER INFORMATION: Wherein Xaa may be any naturally occurring amino acid  
 US-10-087-684-84

Query Match 59.9%; Score 5988; DB 12; Length 1871;  
 Best Local Similarity 60.0%; Pred. No. 0;  
 Matches 1133; Conservative 293; Mismatches 437; Indels 26; Gaps 13;

Qy	10	CLLSHLLVMGSSLLTRQAPLSQKORSFVTFRGEPAEGFNHLVVDERTGHVLAGVN 69
Db	5	CLLL--LLFLAVGGA--LGNRP-----RAFVV-----TDTTLTHLAVHRTVGEVFGAVN 51
Qy	70	RIYKLSSDLKVLVTHETGPDENPKCYPPRIVQTCNEBELTTNNVNMKLLIDYKENRLIA 129
Db	52	RVFKLAPNLTELRAHVTGPVEDNARCYP2PPSMRVCAHRLAPVDNINKULLLDIYAARLVA 111
Qy	130	CGSLYGGICKLRLLEDKLGPEYHKKXEHYLSGVNSESFGVIVSYNSLDDKLFATAV 189
Db	112	CGSIWQGCICQFURLDDLFKLGEPHKKHXYLSGAQEPDSMAGVIVEQQGSKLFGVATV 171
Qy	190	DKPYFYFTTISRKLTKQSEADMEFAYVPHBFVASMIKIPSDTPTIIPDFDIYVYGF 249
Db	172	DGKSEVFTPLSSKLLISDEDSADMFSLVVQDEFVSSQIKIPSDTSLVPAIDIIYVYGFV 231
Qy	250	SGNFYFYLQPEMVSPPGSTTKEQVYTSKVLRLCKEDTAFNSYVEVPIGERSGVEYRL 309
Db	232	SASFYFYLQDQTQTLDTAGEKFTSKIVRMCAQSEFYSYVEFPFGCSWRGVEYRL 291
Qy	310	LQAAVLSKAGAVLGRTLGVHPDDLLFTVFSKGQRKMKSLDESALCIFILKQINDRIKE 369
Db	292	VQSAHLAPGLLAQAQGVPADEVDLFIIFSOGQRNASPPRQTILCLFTLSINAHIR 351
Qy	370	RIQSCYRGEGTLDLAWLKVDI PCSALLTIDNFCGLDMAPLGVSDMVRGIPVFTEDR 429
Db	352	RIQSCYRGEGTLALPWLNLKLPFCINTPXQINGNFCGLVNLQGLGHVIEGLPLADST 411
Qy	430	DRMTSVIAYVKNHSLAFVGTSGKLKIRVDGPRGNALQYETVQVDPDGPVLRDMPSK 489
Db	412	DGMSVAAYTRQHSVVFICTRSGLKKVRVDGFO--DAHLVETVPVVDGSPILRDLFSP 470
Qy	490	DHEQLYIMSEBRLTRVPVSCQYQSCGECGLSGDPHCGWCVLHNTCTRKERCERSKEPR 549
Db	471	DHRHTYLLSEKQVQLPVETCEQYQSCAACLGSGDPHCGWCVLRHRCREGACLGASAPH 530
Qy	550	REASEMKQCVRLTVHPNNISVQYVNLVLEYNYPVPELSAGVNTCTFEDLSEMDG-LVYGN 608
Db	531	GRAEELSKCVQVRPNVSVTSVPGVQLTVTLHNPVDSLVSAGVSCAFEAANEAVLLSPG 590
Qy	609	QICQSPAAKEVPRITITENGDDHHVQLQKSKETGMTFASTGFVFNCSVNSCLSCVSES 668
Db	591	ELLCPSPSLQELRALTRGHGATRTVRLQLSLKETGVRPAGADVFVFNCSVLQSCMCSVGS 650
Qy	669	PYRCHWCKYRHVCTHDPKTCSEQGRVYKLPCEPCQLLRVDKLLVPEVIKPTLKAKNLP 728
Db	651	PYPCHWCKYRHVCTHDPKTCSEQGRVYKLPCEPCQLLRVDKLLVPEVIKPTLKAKNLP 710
Qy	729	QFQSGQRYGECILINIQSGRQYRPARLRFNSSSVCCQNTSYSEYGEININLPVELTVNGH 788
Db	711	QFQSGQRYGECVVRVQGRQYRPAVRFNSSSVCCQNASYSYGEHDEHGTDLDFSVVMDG 770
Qy	789	FNIDNPAQNKHLYKCGAMRESGLCLKADDPFACGWCQGPQCTLRQHCPAQESQWLEL 848

Db	771	FPIDKPPSPRALLYKCAQORPSCGLCLKADPFCNGWCICSEHRCQLRTHCPAKTNWML 830
Qy	849	SGAKSKTNPRITEIIPVTGPREGGTKVIRGENGLGEFRDIASHVKVAGVCSPLVDQY 908
Db	831	SQKGTCSHPRITQIHPLVPGKEGGTRVIVGENGLLSREVG--LRVAGVRCNSIPASY 888
Qy	909	IPAEQIVCMGEA-KESQHAGFVBIQVAVCRPEFMASSOLYFEMTLTSLDLKPSGPMW 967
Db	889	ISAEIVCEBESLVSPPPPGVLCVGCADFTQSEQVYSFVPTTDDQVSPSGPAS 948
Qy	968	GGTQVITITGNLGNAGSNVVMFGKQPCLFHRSPSYIVC-NTTSSDEVLEMKYSVQVDR 1026
Db	949	GGTRLTISGSLDAGSRVTVVRDSECQFVRDAKAIVCISPLSTLGPQAPITLAIDRA 1008
Qy	1027	KIHQ-DLVQYVEDPTIVRIEPEWSIVSGNTPIAVWGHLDLIONQPIAKHGGKEHINI 1085
Db	1009	NISSPGLIYVTDPTVTRLEPTWLSIINGSTAITVSGTHLLTVQEPRAVKRGIETNT 1068
Qy	1086	CEVLNATEMTCQAPALALGPDHQSULTEPPEFGFILDNVQSLLIINKNTFTYYPNPVE 1145
Db	1069	CQVINDTMLCKAPGIFLGRPOPRAQGEHPDEFGLDHVQTARSLNRSSFTYYPDPSPE 1128
Qy	1146	AFPGSILELKPOTPIILKGKNIIPVAGNVKLVNTVLGKPCVTVTVSDVQLLCESPN 1205
Db	1129	PLGPGVLDVKPGSHVVLKGNLIPAAAGSS-RLNVTVLIGQPCSLTVSDTQLLCDSPS 1187
Qy	1206	LIGRHKVMARVGMESYSGMVYIAPDSPLSIPAIVSIAVAGLLIIFIIVAVLIAYKXKS 1265
Db	1188	QTRQPPWVLVGLLEFWLGTLHLSASALTLPAWGLAAGGGLLILAITAVLVAVKRQ 1247
Qy	1266	ESDLTKRLQOMQNDLLESRVALECKEFAELQTDIHELTSDDLQDAGIPFLDRTYTMVL 1325
Db	1248	DADRTLKRLQOMQNDLLESRVALECKEFAELQTDINELTNHMDVQIPFLDYTYAVRVL 1307
Qy	1326	FGIEQHPVLRDLSEVPGYRQERVEKGLKFAQLINNKVFLSPIRLTESQRSFSMDRGN 1385
Db	1308	FGIEAHVPVLELUTP-----PNVEKALRFQGLHSAFVLFIHILEAQSSFSMDRGT 1363
Qy	1386	VASLIMTVLQSKLEYATDVLKQLLADLIDKNLESKNHPKLLLRRTSVAEAKMLTNFTFL 1445
Db	1364	VASLTVVALQSLDYATGLLQQLLADLIEKNLESKNHPKLLLRRTSVAEAKMLTNFTFL 1423
Qy	1446	LYKLEKEGEPFLSFCALKQOMEGPIDAITGEARYSLSSEDKLRQQLDYKTLVLSCV 1505
Db	1424	LHKPLKEGEPFLFLYCALKQOMEGPIDAITGEARYSLSSEDKLRQQLDYKTLVLHCV 1483
Qy	1506	SPDNANSPYVPVKILNCDTITQVKEKILDAIFKNVFCSHRPKAADMDEWRQSGARMIL 1565
Db	1484	CPNEGSAQVPVKVLCNDSITQAKDKLDTVYKGIPIVSQRPKAEDMDLEWRQGRMTRIL 1543
Qy	1566	QDEDTITKIENDWKRLTLAHYOVPDGSVVALYSQVTAYNVNNSTVSTSAKYENMI 1625
Db	1544	QDEDTITKIECDWKRLNSLAHYQVTDGSLVALYPKQVSAYNNMANSFTFTT-SLSRYESLL 1602
Qy	1626	RYTGSPPSLRSRTPMITPDLESQVWHLVKNHEHGDQEGDRGSKVSVIYLTRLLATK 1685
Db	1603	RTASSPDSLRSRAPMITPDQETGTLWHLVKNHHDHREGDRGSKVSVIYLTRLLATK 1662
Qy	1686	GTQKQFVDDLFEFIFSTAHRGSALPLAIKTMFPLDQADKHGHIHPHVTHTWKSNCPL 1745
Db	1663	GTQKQFVDDLFEFVSTAHRGSALPLAIKTMFPLDQADQOQISDFVDVHTHTWKSNCPL 1722
Qy	1746	RFWNMILKNPQFVDFIHKNSITDACLISVVAQTQMDSCSTSEHRLGKDSPSNKLLIYAKDIP 1805
Db	1723	RFWNMILKNPQFVDFIHKNSITDACLISVVAQTQMDSCSTSEHRLGKDSPSNKLLIYAKDIP 1782
Qy	1806	SYKNWERYYSIDIKMPALSDQDMAYLAESQSRMNMNFMTMSALSEIFSVYOKYSBEIL 1865
Db	1783	NYKSWERYIRYIDAKMASISDQDMAYLVFQSRHASDFSVLSALNELYFVYVTKYQBEIL 1842
Qy	1866	GPLDHDQCCGKOKLAYLKEQVITLMSLDS 1894
Db	1843	TALDRDASCRKHKLRQKLEQIISLVSSDS 1871



RESULT 12

US-10-218-779-84

; Sequence 84, Application US/10218779

; Publication No. US20040029222A1

; GENERAL INFORMATION:

; APPLICANT: Edinger, Shlomit

; APPLICANT: MacDougall, John

; APPLICANT: Miller, Isabelle

; APPLICANT: Ellerman, Karen

; APPLICANT: Stone, David

; APPLICANT: Gerlach, Valerie

; APPLICANT: Grosse, William

; APPLICANT: Alsobrook II, John

; APPLICANT: Lepley, Denise

; APPLICANT: Rieger, Daniel

; APPLICANT: Burgess, Catherine

; APPLICANT: Casman, Stacie

; APPLICANT: Spytek, Kimberly

; APPLICANT: Boldog, Ferenc

; APPLICANT: Li, Li

; APPLICANT: Padigaru, Muralidhara

; APPLICANT: Mishra, Vishnu

; APPLICANT: Patturajan, Meera

; APPLICANT: Shenoy, Suresh

; APPLICANT: Rastelli, Luca

; APPLICANT: Tchernev, Velizar

; APPLICANT: Vernet, Corine

; APPLICANT: Zerhusen, Bryan

; APPLICANT: Malyankar, Uriel

; APPLICANT: Guo, Xiaojia

; APPLICANT: Miller, Charles

; APPLICANT: Gangoli, Bha

; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same

; FILE REFERENCE: 21402-214

; CURRENT FILING DATE: 2002-08-14

; PRIOR FILING DATE: 2000-11-29

; PRIOR APPLICATION NUMBER: 60/253,834

; PRIOR FILING DATE: 2000-11-29

; PRIOR APPLICATION NUMBER: 60/250,-926

; PRIOR FILING DATE: 2000-11-30

; PRIOR APPLICATION NUMBER: 60/264,180

; PRIOR FILING DATE: 2001-01-25

; PRIOR APPLICATION NUMBER: 60/313,656

; PRIOR FILING DATE: 2001-08-20

; PRIOR APPLICATION NUMBER: 60/327,456

; PRIOR FILING DATE: 2001-10-05

; NUMBER OF SEQ ID NOS: 216

; SOFTWARE: Patent In Ver. 2.1

; SEQ ID NO 84

; LENGTH: 1871

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: VARIANT

; LOCATION: (380)

; OTHER INFORMATION: Wherein Xaa is any amino acid.

US-10-218-779-84

Query Match 59.9%; Score 5988; DB 12; Length 1871;

Best Local Similarity 60.0%; Pred. No. 0;

Matches 1133; Conservative 293; Mismatches 437; Indels 26; Gaps 13;

10 CILSHLLMVGMSSTLLTROPAPLSQKRSFVIFRGEPAEGFNHLLVVDERTGHLYLCAVN 69

5 CLLL-LFLVAGGA--LGNRPF-----RAFVV-----TDITLTHLAVHRTVGEVFGAVN 51

70 RYKLSDDLKVLVTHETGPEBDNPKCYPPRIVOTCNPLTTNNVNKKLLIDYKENRLIA 129

52 RVFKLAPNLTELRAHVTGPVEDNARCYPFPPSCAHLAPVDNINKLLIDYAAARLVA 111

130 CGSLYQGIKLLRLDLFLKLEPHKKEHYLSGVNWSGVFGVIVSYNLLDKLFIATAV 189

Db	112	CGSIWQICQFLRLDDLFKLGEPHRKEHYLSGAQEPDSMAGVVEQGGPSKLFVGTAV	171
Qy	190	DKPEYFPTTSSRKLTNNSEADGMFAVYFHDDEFVASMIKIPSDTFTTIPDFDIYVYGF	249
Db	172	DKSEYFPTLSSRKLISEDSADMFSLVYQDEFVSSQIKIPSTSLSYPALDIYVYGFV	231
Qy	250	SGNFVYFLTLQPEMVSPGSGTTKEQVYTSKLVRLCKEDTAFNSVVEVPIGICERSGVYRL	309
Db	232	SASFVYFLTLQDTQQTLTDTAGEKFFTSKIVMCAGDSEFSYVVEPIGCSWRGVYRL	291
Qy	310	LQAAVLSKAGAVLQRTLVGHPDDLLFTVFSKQKRMKSLDESALCIFIILKQINDRIKE	369
Db	292	VQSAHLAKPGILLAQALGVPADEDLFTIFSQGNKRSAPPRQITLCLFTLSINAHIRR	351
Qy	370	RLQCYRGEGLDLAWLKVDIPCSALLITDDNFCGLDMNAPLGVSDMVRGIVFTEDR	429
Db	352	RIQCYRGEGLTALPWLNLKELPCINTPXQINGNFCGLVNLQPLGGHVEGLPLADST	411
Qy	430	DRMTSVIAYVYKNSHLAFVGTGSKLKKIRVDGPRGNALQYETVQVVDPPGVLRDMAFSK	489
Db	412	DGMASVAAVYRQHSVVFVIGTRSGSLKKVRVDGQ--DAHLVETVPVVDGSPILADLLFSP	470
Qy	490	DHEQLYIMSERQLTRVPVSGVQYQSGCEGLSGDPHCGMVCVLTCTRKERCERSKEPR	549
Db	471	DHRHIYLLSEKQVSLPVETCEYQSCAACLGSGDPHCGMVCVLRHRCREGACLGASAPH	530
Qy	550	RFASEMKQCVRLTVHPNNISVSYQYNVLLVLETYNVPELSAGVNCCTFEDLSEMDG--LVVGN	608
Db	531	GFAEELSKCVQVRVRPNNVSVTPGVQLTVTLHNVPLDSAGVSCAFEAANEAVLLPSG	590
Qy	609	QIQCYSPAKEYPRIITENGDDHVVOQLSKKETGMTFASTSFVFNCSVHNSCLSVES	668
Db	591	ELLCPSPQLBELRALTRGHGATRTVRLQLLSKETGVRFAGADVFVFNCSVLQSCMCSVGS	650
Qy	669	PYRCHWKYRHCVTHTDPKTCFQSGRVKVLPEDCQLLRVDKILVPEVIEKIFITLAKKLP	728
Db	651	PYPCHWKYRHTCTSRPEHCSFQSGRVHSPSGCEPILPSGDLILPVGMQPLTLRAKULP	710
Qy	729	QPSQGRGYECILANIQSGEQRVPALRFNSSVQCNYSYEGMEINNLVELTVVWNGH	788
Db	711	QPSQGRKNECVWRVQSGQRVPAVRFNSSVQCNASYSYEGDEHGDTELDVFWVDGD	770
Qy	789	FNIDNPAQNVKLYKCGAMRESCGLKADPDFACGQCGQPGQCTLRQHCPSQWLEL	848
Db	771	FPIDKPPSFRALLYKCAQWPSQGLKADPRFCGWCISHRQCLRTHCFAPKTNMHL	830
Qy	849	SGAKSKCTNPRITEIIPVTGPRGGTKVTIRGENLGLFEDRIASHVKVAGCEPLVDGY	908
Db	831	SQKGRCSHPRITQIHPVLPKGGTRVTIYGENLGLLSREVG--LRVAGVRCNSIPABY	888
Qy	909	IPAEQIVCEMGEA-KPSQHAGFVBIQVACRPEFMARSSQLYFMTLTSLDKPSRGPMS	967
Db	889	ISAERIVCEMEESLVPSPPPGVLCVDCSADPTQSEQVYSFVTFDQVSPSRGPAS	948
Qy	968	GGTQVTTITGNLNGSNVVMFGKQPCFLFHRRSYIVC-NTTSSDEVLEMKVSVQVDRA	1026
Db	949	GGTRLTISGSLDAGSRVTVTVRDSQCQFVRDAAKAVICISPLSTLQSPQAPITLADRA	1008
Qy	1027	KHQ--DLVFEQVVEDPTIVRIEPEKSIYSGNTPIAVMGTHLDLIONPOLRAKHGKHEINI	1085
Db	1009	NLSSPELLYTTQDPTVTRLEPTWSIINGSTAITVSGTHLTVGEPRVAKYRIETNT	1068
Qy	1086	CEVLNATEMTQAPALALGPDHQSDLTERPEEFGFILDNVQSLILINKNTFTYVNPVFE	1145
Db	1069	CQVINDTAMLCAPGIFLGRFPQRAQGEHPDEFGLLDHVQTAARSLNRSFTYVDPSPFE	1128
Qy	1146	APGSGIIELEKGTPIILKGNLIPPVAGGNVKNLYTVLCEKCTVTVSDVOLLCESPN	1205
Db	1129	PLGPGSVLDVPGSHVILKGNLIPAAAGSS--RLNVTYVLIQGGPCSLVSTQLLDCSPS	1187
Qy	1206	LIGRHKVAVRGVMEYSFGMVVIAPDSPLSPATVSIAGGLLIIFIVAVLIAYKRSR	1265

Db 1188 QTGRQPVVIVGGLFMTGLTSHISAERALTLPAMHGLAAGGGLLLLAITAVLVAYKRTQ 1247  
Qy 1266 ESDTLTKRLQMDNLSRVALECKEAPABEQTDIHETLSLDGAGPFLDYRTYTRVL 1325  
Db 1248 DADRTLKRLQMDNLSRVALECKEAPABEQTDINELTNMDEVOIPFLDYRTYTRVL 1307  
Qy 1326 PFGIDHEDVLRLDEVPQYRQERVEKGLKFAQLNNKVFLLSFRTLESQRSFMRDRGN 1385  
Db 1308 PFGIEAHFVLKELDTP----PNVEKALRFQQLHSAFVLTFTHTLEAQSPFMRDRGT 1363  
Qy 1386 VASLIMTVLQKLEYATVVLKOLLADLIDKNLESKNHPKLLLRRTESVAERKMLTNWTFPL 1445  
Db 1364 VASLTMVALQSRDLVATGLKQLADLIEKNLESKNHPKLLLRRTESVAERKMLTNWTFPL 1423  
Qy 1446 LVKFLKECAGPFLPFCALQKQMEKGPIDAITGEARYSLSEDKLIRQOIIDYKTLVLSCV 1505  
Db 1424 LHKFLKECAGPFLYLCALQKQMEKGPIDAITGEARYSLSEDKLIRQOIIDYKTLVLSCV 1483  
Qy 1506 SPDNANSEVPVKILNCDTITQVKEKILDAIFKXVPCSHRPKAAADMDLEWQSGARMIL 1565  
Db 1484 CPENEGSAQVPVKVNLNCDSTQAKDKLLDTVYKIPYQRPKAEKMDLEWQSGARMIL 1543  
Qy 1566 QDEDTTKIENDKRLNLTAAHVQVDPGSGVVALSKQVTAYNVNNSTVRSASKYENMI 1625  
Db 1544 QDEDTTKIENDKRLNLTAAHVQVDPGSGVVALSKQVTAYNVNNSTVRSASKYENMI 1602  
Qy 1626 RYTGSPDLSRSTPMITPDLESVGVKXVHVLVKNHEHGDQKEDGRGSKMVSSEIYLTLLATK 1685  
Db 1603 RTASSPDSLRSAPMITPDQETGTCLMHLVKNHDAHREGDRGSKMVSSEIYLTLLATK 1662  
Qy 1686 GTLOKFVDDLEETIESTAHRSALPLAIKYWFEDLDEADKHGTHDPVHRTWKSNCPL 1745  
Db 1663 GTLOKFVDDLEETIESTAHRSALPLAIKYWFEDLDEADKHGTHDPVHRTWKSNCPL 1722  
Qy 1746 RFWNMKNPQVFDIHKNSITDACLVSVAQTFMDSCSTSEHRLKDSFNSKLLYAKDIP 1805  
Db 1723 RFWNMKNPQVFDIHKNSITDACLVSVAQTFMDSCSTSEHRLKDSFNSKLLYAKDIP 1782  
Qy 1806 SYKNWERYYSIDGKPAISDQDMAYLAQSRMNMENFNTWSALSEIFSVYGYKSEIL 1865  
Db 1783 NYKSWERYYRDIAGVASISDQDMAYLAQSRMNMENFNTWSALSEIFSVYGYKSEIL 1842  
Qy 1866 GPLDHDQCGKOKLAYKEQVITLMSLDS 1894  
Db 1843 TALDRDASCRKHLKQKLEQIISLVSSDS 1871

RESULT 13  
US-10-087-684-82  
; Sequence 82, Application US/10087684  
; Publication No. US20040029116A1  
; GENERAL INFORMATION:  
; APPLICANT: Edinger, Shlomit R.  
; APPLICANT: MacDougall, John R.  
; APPLICANT: Millet, Isabelle  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Stone, David J.  
; APPLICANT: Grosse, William M.  
; APPLICANT: Lepley, Denise M.  
; APPLICANT: Rieger, Daniel K.  
; APPLICANT: Burgess, Catherine E.  
; APPLICANT: Casman, Stacie, J.  
; APPLICANT: Spytek, Kimberly A.  
; APPLICANT: Boldog, Ferenc L.  
; APPLICANT: Li, Li  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Mishra, Vishnu  
; APPLICANT: Shenoy, Suresh G.  
; APPLICANT: Rastelli, Luca  
; APPLICANT: Tchernev, Velizar T.  
; APPLICANT: Vernet, Corine A.M.  
; APPLICANT: Zerhusen, Bryan D.  
; APPLICANT: Malyankar, Uriel M.

; APPLICANT: Guo, Xiaojia  
; APPLICANT: Miller, Charles E.  
; APPLICANT: Gangoli, Ssha A.  
; TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS ENCODING SAME  
; FILE REFERENCE: 21402-214 CIP  
; CURRENT APPLICATION NUMBER: US/10/087,684  
; CURRENT FILING DATE: 2003-03-10  
; PRIOR APPLICATION NUMBER: 60/253,834  
; PRIOR FILING DATE: 2000-11-29  
; PRIOR APPLICATION NUMBER: 60/250,926  
; PRIOR FILING DATE: 2000-11-30  
; PRIOR APPLICATION NUMBER: 60/264,180  
; PRIOR FILING DATE: 2001-01-25  
; PRIOR APPLICATION NUMBER: 60/274,194  
; PRIOR FILING DATE: 2001-03-08  
; PRIOR APPLICATION NUMBER: 60/313,656  
; PRIOR FILING DATE: 2001-08-20  
; PRIOR APPLICATION NUMBER: 60/327,456  
; PRIOR FILING DATE: 2001-10-05  
; NUMBER OF SEQ ID NOS: 220  
; SOFTWARE: CuraSeqList version 0.1  
; SEQ ID NO 82  
; LENGTH: 1754  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (78)..(78)  
; OTHER INFORMATION: Wherein Xaa may be any naturally occurring amino acid  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (123)..(123)  
; OTHER INFORMATION: Wherein Xaa may be any naturally occurring amino acid  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (620)..(620)  
; OTHER INFORMATION: Wherein Xaa may be any naturally occurring amino acid  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1474)..(1474)  
; OTHER INFORMATION: Wherein Xaa may be any naturally occurring amino acid  
; OTHER INFORMATION: Wherein Xaa may be any naturally occurring amino acid  
US-10-087-684-82

Query Match 58.5%; Score 5847.5; DB 12; Length 1754;  
Best Local Similarity 63.7%; Pred. No. 0;  
Matches 1114; Conservative 237; Mismatches 378; Indels 19; Gaps 12;

Qy 37 QRSFVTFRGPAGFNHLVVDERTGHYLGAVNRIYKLSDDLKVLVTHETGPDDEDPKCY 96  
Db 16 QPPFRTPSGSD-WGLTHLLVHEQTGEVYVGVANRIYKLSGNLTLLRAHVTPGVEDNEKY 74  
Qy 97 PPRIVOTCNEPLTTNNVKNKLLIDYKENRLIACGSLYQGIKLLRLEDLFLKGEVYHK 156  
Db 75 PPPXVQSCPHGLGNTNNKLLLDYANRLLAGCSAQGICQSLRLDLFLKGEVYHK 134  
Qy 157 EHYLSGVNCSGVFGVIVS--YSNLDLDFIATAVKGKPEYPTTSRKLTKNSEADGMF 214  
Db 135 EHYLSVQVQAGSMAGVLIAGPPGQAKLVGTPIDGKSEYFPTLSRRLMANEEDADM 194  
Qy 215 AYVPHDFVASMUKIPSDTFTIIPDEDIYVYVGFSGNFVYVLTQ--PMVSPPGSTTK 272  
Db 195 GFVYQDBFVSQKIPSDTFTIIPDEDIYVYVGFSGNFVYVLTQ--PMVSPPGSTTK 272  
Qy 273 EQVYTSKLVRLCKEDTAFNSYVEVPICERSGVEYRLLQAAVLSKAGAVLGRITLVHPDD 332  
Db 253 EHFPTSKIVRLCVDKPKFYSYVEFPFICEQAGVEYRLVQDAVLSRPGRALAHQGLADE 312  
Qy 333 DLLFTVFSKQKRNKSLDESALCIFILKQINDRIKRLQSCYRGRTDLAWLVKVDIP 392  
Db 313 DVLFTVFAQGNKRVKPKESALCLFTRAIKIKERIQSCYRGRTDLAWLVKVDIP 372  
Qy 393 CSSALLTIDNFCGLDMNAPLGVSDMVRGIPVTEDRDMTSVIAYVYKNSLAFVGTGS 452

373 CINSPLQIDDDFRQDQFNQPLGGTVTIEGTPLFVDKDDGLTAVAAVDYRGRTVVVFAGTRS 432
453 GLKXKIRVD--GPRGN-ALQYETVVQVDPGPVLRDMAPSKDHEQLYIMSERQLTRVPVES 509
433 GRIRKILVDLSPNCGRPALAYESVVAQEGSPILRLDLVSPNHQVLYAMTEKQVTRVPVES 492
510 CGQYQSCGECIGSDGPCACVILHNTCTRKERCERSKEPRFASEKQCVRLTVHPNNIS 569
493 CVQYTSCELCGSDRPHCGMCVLSHICSRDADERADEPORFAADLLQCVQLTVQPNVS 552
570 VSOYNVLVLVETVNPVLSAGVNCCTFEDLSEMDGLVVGNCIQCVSPAACEVPRITENG 629
553 VTMSQVPLVQANVPDLVAGVNSCFEDFTSESVLEDGRIHCRSPSAREVAPITRQGD 612
630 HNVQLQLKSKETGWTASTSFVFNYSVHNSCLSCVSEYPRCHWKYRHCVTCHDPTKTS 699
613 QRVVKLYXKSKETGKFKASVDVFYNCVSHQSCVNSGFFPCHWKYRHCVTCHNADCA 672
690 FQGRVKLPEDCPOLLRRDKILVPEVVIKITTAKNLPQPGSQRGYECILNIQSGEOR 749
673 FLEGVNVSEDCPILSTQIYVGVVKPITLARNLPQPGSQRGYECLFHPGSPAR 732
750 VPALRFNSSVQCCNTSYSEGBEINNLPVELTVVWNGHFNINDNPAONKVHLYKCGAMRE 809
733 VTALRFNSSLQCCNYSYEGNDVSLPNVLSVWNGNFVIDNPQINQIAHLKCPALRE 792
810 SCGLCKADPDFACGWCQPGQCTLRQHCAPQ-ESOMLELSGAKSKCTNPRITEIIPVTG 868
793 SCGLCKADPDFFCGVCWAERCSLRHCHCAADTPASWMAHARHGSSRCTDPKILKLPETG 852
869 PREGGKTVIRGENLGEFRDIASHKVAGVCSPLVDGYIPAEQIVCEMGEAKPSQ-HA 937
853 PROGGTTLITGENLGRFEDVRLGVGVKLVCSPEVEISAEQIVCEIGDASSVRAHD 912
928 GFVEICVAVCRPEMARSSQLYVMTLTLSDLPKSRGPMGGTCVTITGNNLAGSNVVV 987
913 ALVEVCVRDCSFPYRALSPKRFPTVTFTRVSPSRGLSGGTWIGIEGHLNAGSDVAV 972
988 MFGQPCFLHRRSPSYIVCNTSSDVELEMKVSVQVDRAKI-HQDLVFQVVEPPTVRIE 1046
973 SVGRPCFSFWRNSREIRCLTPQSPSPSAPIININRAQLTNPEVKYNTVEDPTILRID 1032
1047 PEWSIVSGNPIAVGTHLDLIQNPQIRAKHGKEHINICEVLNATEMTQOALALGPD 1106
1033 PEWSINGGTLTVTGNLATVREPRIRAKYGGIERENGCLVYNDTVMCRAPSVANVR 1092
1107 HQSDLTPRPEFGFILDNVOSLILNKNTFTYPNVPFEAFPGSGILELKPPTIILKKG 1166
1093 SPPELGERPDELGFVMDNVRSLVLNSTSLYYPDPVLEPLSPTGLLELKPSPFLILKGR 1152
1167 NLIPVAGNVKLVTVLGEKPCVTIVSDVOLLCESPNLIGRHKVMARVCGMEYSPGMV 1226
1153 NLLPP-APGNSRLNYTLIGSTPCTLTVSSTQLLCEAPNLTGQHKVTRAGGFEPFSGTL 1211
1227 YIAPDSPLSLPAIVSIAVAGLLIIFTVAVLIAVKRSRSDLTLELOMDNLSRVA 1286
1212 QVYSDSLTLPAIVIGIGGGGLLLVAVLIVAVLIAVKRSRDADRTLKELQLOMDNLSRVA 1271
1287 LECKEAFAELOTDIHELTSDLDGAGIFPLDYRTYTMVLPFGIEDHPVLRDLVPGVQRE 1346
1272 LECKEAFAELOTDIHELTNDLDGAGIFPLDYRTYAMEVLPFGIEDHPVLMEME- -QA 1327
1347 RVEKGLKFAQLINKKVFLLSFIETLSQRSFNRDRGNVASLIMTVLQSKLEVATDVLK 1406
1328 NVEKSLTLFGQLLTKKHFLLTIFITLQARSFNRDRGNVASLIMTALQEMEYATGVLK 1387
1407 QLLADLIDKNLESKNPKLLRRRTESVAEKMLTNWFTFLYKFLKECAGELPFLSFAIK 1466
1388 QLLSDLEKNLESKNPKLLRRRTESVAEKMLTNWFTFLYKFLKECAGELPFLMYCAIK 1447
1467 QQMEKGPIDAITGEARYSLSDKLIROQIDYKTLVLSVSPDNANSPEVPKILNCDTIT 1526
1448 QQMEKGPIDAITGEARYSLSDKLIIRXQIDYKTLVLCNVNPNENAPEVPVKGDCTVT 1507

QY 1527 QVKEKILDAIKFNVPFCSHRPKAADMDLEWRQSGARMILODEDITTKIENDWKRLNTLAH 1586
DB 1508 QAKKELDDAAAYKGVFSQRPKAAADMDLEWRQSGARMIILQDEBVTTKIDNDWKRLNTLAH 1567
QY 1587 YQVPGSVVALVSKQVTAYNAVNNSSTVSTASKYENMIRYTGSPDSLSRSTPMITPDLE 1646
DB 1568 YQVTDGSSVALVPKQTSAYNISNSSTFTK-SLSRYESMLRTASSPDSLSRSTPMITPDLE 1626
QY 1647 SGVQVHVLVQNHQDQKEGDRGSKVWSEIYLTLLATKGLQKQFVDDLFFETIFSTAHRG 1706
DB 1627 SGTKLHVLVQNHDLQREGDRGSKVWSEIYLTLLATKGLQKQFVDDLFFETIFSTAHRG 1686
QY 1707 SALPLAIKYMDFDLDEQADKHGIDHPVHRTWKSNCILBLRFWAMIKNPQVDFDHKNSI 1766
DB 1687 SALPLAIKYMDFDLDEQADKHGIDHADVRHTWKSNCILBLRFWAMIKNPQVDFDHKNSI 1746
QY 1767 TDACLSVV 1774
DB 1747 TDACLSVV 1754
RESULT 14
US-10-218-779-82
; Sequence 82, Application US/10218779
; Publication No. US20040029222A1
; GENERAL INFORMATION:
; APPLICANT: Edinger, Shlomit
; APPLICANT: MacDougall, John
; APPLICANT: Millet, Isabelle
; APPLICANT: Ellerman, Karen
; APPLICANT: Stone, David
; APPLICANT: Gerlach, Valerie
; APPLICANT: Grosche, William
; APPLICANT: Alsobrook II, John
; APPLICANT: Lepley, Denise
; APPLICANT: Rieger, Daniel
; APPLICANT: Burgesse, Catherine
; APPLICANT: Casman, Stacie
; APPLICANT: Spytek, Kimberly
; APPLICANT: Boldog, Ferenc
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Mishra, Vishnu
; APPLICANT: Patturajan, Meera
; APPLICANT: Shenoy, Suresh
; APPLICANT: Rastelli, Luca
; APPLICANT: Tchernev, Velizar
; APPLICANT: Vernet, Corine
; APPLICANT: Zethusen, Bryan
; APPLICANT: Malyankar, Uriel
; APPLICANT: Guo, Xiaojia
; APPLICANT: Miller, Charles
; APPLICANT: Gangolli, Esha
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-214
; CURRENT APPLICATION NUMBER: US/10/218,779
; CURRENT FILING DATE: 2002-08-14
; PRIOR APPLICATION NUMBER: 60/253,834
; PRIOR FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: 60/250,-926
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: 60/264,180
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/313,656
; PRIOR FILING DATE: 2001-08-20
; PRIOR APPLICATION NUMBER: 60/327,456
; PRIOR FILING DATE: 2001-10-05
; NUMBER OF SEQ ID NOS: 216
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 82
; LENGTH: 1754
; TYPE: PRT

Db	733	VTALRNFSSSLQCNSSYSYEGNDVSDLPVNLSSVWNGNFVNDPQNIQAHLYKCPALRE	792
Qy	810	SCGLCKADPDFACGWCQPGQCTLRHCFAQ-ESQWLEISGAKSKTNPRIETIIPVTG	868
Db	793	SCGLCKADPRFECGWCVAERCSLRHCAADTPASWMAHARHGSSRCTDKILKSPETG	852
Qy	869	PREGKTUIRGENLGEFRDIASHVKVAVGECPLVDGYIPABQIVCEMEAKPSQ-HA	927
Db	853	PROGSTRITITGENLGRFEDVRLGVKLVCFVSEYISABQIVCEIGDASSVRAHD	912
Qy	928	GFVEICVAVCRPEFMARSSQLYYFWTLTLDLKSFRGPMGGTQVTTTGTNMGNSVVV	987
Db	913	ALVEVCVRDCSPHYRALSPKRAFTFVTPTFVRVSPSRGFLSGGTWIGIEGSHNAGSDVAV	972
Qy	988	MFGKQPCLPFRSPSYIVCNTSSDVELEMKVSVQVDRAKI-HODLVFQVYVEDFTVIRIE	1046
Db	973	SVGGRPCSFWRNSREIRCLTPQCSGSGAPIIININRAQUTNPVKXNYTEDFTILRID	1032
Qy	1047	PEWSIVSGNTPIAVMGTHLDLIQNPQIRAKHGKHEHINICEVLNATEMTCOAPALALGPD	1106
Db	1033	PEWSINSGLTLLTVGTNLATVRSPRIAKYGGIERENGCLVYNDTMTVCRAFSVANPVR	1092
Qy	1107	HQSDUTERPEFGFILDNVQSLILINKNTFYYPNPVPEAFPGSGILKELKGTPIILKKG	1166
Db	1093	SPPELGERPDBLGFYMDNVRSLLVNLSFYLVPDVLPELSPGTGLLEKSPSPILLKGR	1152
Qy	1167	NLIPPVAGCNKLVNLVGEKPCCTVTIVSDVQLLCESEPNLIGRHKWARVAGMEYSPOMV	1226
Db	1153	NLPP-APGNSRLNVTYLGSTPCTLTIVSETQLLCEAPNLGQHKVTVRAGGFSPGTL	1211
Qy	1227	YIAPSPISLPAIVSIAVAGGLIIFIVAVLIAYKRRESDLTKRLQMDNLESVA	1286
Db	1212	QVYSLSLTLPAIVGIGGGGLLLVIVAVLIAYKRSDADRTLKRLQMDNLESVA	1271
Qy	1287	LECKAFAPLQDIIHELTSDLGAGIPFLDYRTYMRVLPFGIEDHPVLRDLEVGGRQE	1346
Db	1272	LECKAFAPLQDIIHELINDLDGAGIPFLDYRTYMRVLPFGIEDHPVLRDLEVGGRQE	1327
Qy	1347	RYEKGKLPALQINNKNVFLLSFIRLESQSFMSDRGNVASLINTVLSKLEYATDVLK	1406
Db	1328	NVEKSLTLFGQLTKKHFLLTIRLEAQSFMSDRGNVASLINTVLSKLEYATDVLK	1387
Qy	1407	QLLADLIDKNLKNHPKLLLRRTESVAEKMLTNWFTLLYKFLKECAGEPLFLCAIK	1466
Db	1388	QLSLDIEKNLKNHPKLLLRRTESVAEKMLTNWFTLLYKFLKECAGEPLFLCAIK	1447
Qy	1467	QWKEGPIDAITGEARYSLSEDKLIRQIDYKTLVLSVSPDNANSPEVPVKILNCDTIT	1526
Db	1448	QWKEGPIDAITGEARYSLSEDKLIRQIDYKTLVLSVSPDNANSPEVPVKILNCDTIT	1507
Qy	1527	QVKEKILDAIFKNVPCSHRPAADMDLEWROGSGARWILQDESDITTKIENDKRLNTLAH	1586
Db	1508	QAKEKILDAAYKGVPPYQRPKADMDLEWROGSGARWILQDESDITTKIENDKRLNTLAH	1567
Qy	1587	YQVPGSVVALVSQVTAYNVNNSTVSRSTASKYENMIRYTGSPDSLSRSTPMTTPDLE	1646
Db	1568	YQVTDGSSVALVPKQTSAYNISNSSTFTK-SLSRYESMLRTASSPDSLSRSTPMTTPDLE	1626
Qy	1647	SGVMMHLVKNHEHGDQEGDGRGSKVSEIYLRLLAKTGLQKQVDDLFETIESTAHERG	1706
Db	1627	SGTKLWHLVKNHDLQDREGDGRGSKVSEIYLRLLAKTGLQKQVDDLFETIESTAHERG	1686
Qy	1707	SALPLAIKVMFDFDQADKHGHDHVRHWTWKSNCPLRFVWVNMINKPQFVFDIHKNSI	1766
Db	1687	SALPLAIKVMFDFDQADKHGHDHVRHWTWKSNCPLRFVWVNMINKPQFVFDIHKNSI	1746
Qy	1767	TDACLSV 1774	
Db	1747	TDACLSV 1754	

RESULT 15  
US-09-964-956-45

;	ORGANISM:	Homc sapiens	
;	FEATURE:		
;	NAME/KEY:	VARIANT	
;	LOCATION:	(78)	
;	OTHER INFORMATION:	Wherein Xaa is any amino acid.	
;	FEATURE:		
;	NAME/KEY:	VARIANT	
;	LOCATION:	(123)	
;	OTHER INFORMATION:	Wherein Xaa is any amino acid.	
;	FEATURE:		
;	NAME/KEY:	VARIANT	
;	LOCATION:	(620)	
;	OTHER INFORMATION:	Wherein Xaa is any amino acid.	
;	FEATURE:		
;	NAME/KEY:	VARIANT	
;	LOCATION:	(1474)	
;	OTHER INFORMATION:	Wherein Xaa is any amino acid.	
;	US-10-218-779-82		
;	Query Match	58.58; Score 5847.5; DB 12; Length 1754;	
;	Best Local Similarity	63.78; Pred. No. 0;	
;	Matches 1114; Conservative 237; Mismatches 378; Indels 19; Gaps 12;		
Qy	37	QRGFVTFRGPAGFNLVVDERTGHIYLGAVNRIYKLSDDLKLVLTHTGTGPDNDPKCY	96
Db	16	QPPRTFSGSD-WGLTHLLVHEQTEGVYVGVAVNRIYKLSGNLLLRRAHVTGPVEDNEKY	74
Qy	97	PPRIVQTCNEPLTTNNNNKMLLDYKENRLIAGSLYQICIKLLLEDLFLKLBEPYHK	156
Db	75	PPXVQSCPHGLGNTDNVKNLLLDYAAANRLACGSASQICQSLRLDLFLKLBEPYHK	134
Qy	157	EHLVSGVNEGSGVFGVIVS--YSLNDDKLFATAVDGKPEYFPTTISRKLTKNSEADGMF	214
Db	135	EHLVSSVQEGAGSMAGVLIAGPPGQQAFLFVGPIDGSEVFFTLSSRLWANEADMF	194
Qy	215	AYVHDFBFAVMIKIPSDTFTIIPDIYVYGFSSGNFVFTLQ--PEMVSPGSGTK	272
Db	195	GFVYQDFBFSQQLKIPSDTLTKFPAPDIYVYSPRSEQFVYLTQLDQLTSP--DAAG	252
Qy	273	EQVYTKLVRLCKEDTAFNSVVEYPIGERSGVRYLLQAAYLKAGAVLGRTLGVHPDD	332
Db	253	EHFTSKIVRLVCDPDPFYSIVPEPIGCEQAGVEYRLVQAYLSRPPALAHQGLAEDE	312
Qy	333	DLFLTFVSKGQRKMKLDESALCIFIILKQINDRIKELRQSCVYRGEGTLDLAMLVKQIP	392
Db	313	DVLFTVFAQGGKVRKPKKESALCLFTRAIKIKERIKERIQSCVYRGEGTLDLAMLVKELG	372
Qy	393	CSSALLTIDNFCGLDNAP--GVSDMVRGIPVFTEDRMTSVIAYVYKSHSLAFVGTGS	452
Db	373	CINSPQLIDDFRGODFNQPLGGVTIEGTLFVDKDDGLTAVAAVYRGTVVFAGTRS	432
Qy	453	GKLKKIRVD--GPRGN-ALQYETVQVVDPPGVLRDMAFSKDHEQLYIMSERQLTRVPVS	509
Db	433	GRIRKILVDLSNPGGRPALAVESVVAQSGSPILRDLVLSNPHQVLYAMTEKQVTRVPVS	492
Qy	510	CGYQSCGECGLSGDPHCGWCVLHNTCTRKERCERSKEPRFASSEMKCQVRLTVHPNIS	569
Db	493	CVQVTSCELCIGSRDPHCGWCVLHISICSRDRACERADPEPQFAADLLQCVQLTVQPRNV	552
Qy	570	VSQNVNLVLETYNVPELSAGVNCCTFEDLSMDGLVGNQICQYSPAACEVPRITENG	629
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Qy	630	HHVQLQKSKETGTMFTASTFVFNCSVHNSCLSCVSPYRCHWKYRHHVCTHDPTCS	689
Db	613	QRVVKLYKSKETGKFPASVDFVFNCSVHNSCLSCVNSPFCCHWKYRHHVCTHNADCA	672
Qy	690	FOEGSVKLPEDCPQLLRVDKILVPEVVKPTTLAKNLPQPSQSGRGVEICLINTQSGEQR	749
Db	673	FLEGRVNSDECPQLPSTQIYVGVGVKPTITLARNLPQPSQSGRGVEICLPHFGSPAR	732
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	Query Match	33.9%	Score 3386.5	DB 12	Length 813
Best Local Similarity	79.1%		Pred. No. 1.5e-299		
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Gaps 1					
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Db	5	VCKVNVNTTLTCLAPSLLTDYRPGLDVERDPDFGVFNNVQSLLIYNDKFIYENPTF	64		
QY	1145	EAFGPSGILELKGFTPIILKGNLI.PPVAGNVKLVNTVLVGEKPTVTVSDVOLCESP	1204		
Db	65	ELLSPFGVLDOKEGFIILKGNLCPPASGG-AKLVNTVLIGTPOAVTVSETQLICEPP	123		
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Job time : 94 secs

GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: May 23, 2004, 12:26:29 ; Search time 178 Seconds  
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Scoring table: BLOSUM62

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Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1359.5	13.6	2477	4	US-09-907-794A-169 Sequence 169, App
2	1359.5	13.6	2477	4	US-09-905-125A-169 Sequence 169, App
3	1359.5	13.6	2477	4	US-09-902-775A-169 Sequence 169, App
4	1349	13.5	4707	3	US-09-181-706-1 Sequence 1, Appli
5	1349	13.5	4707	3	US-09-458-791-1 Sequence 1, Appli
6	1349	13.5	4707	3	US-09-459-066-1 Sequence 1, Appli
7	1349	13.5	4707	4	US-09-459-066-1 Sequence 1, Appli
8	657	6.6	3458	4	US-09-023-655-603 Sequence 603, App
9	629.5	6.3	4626	1	US-08-306-691B-22 Sequence 22, Appl
10	629.5	6.3	4626	5	PCT-US93-06251-27 Sequence 27, Appl
11	323	3.2	2433	4	US-09-300-958A-24 Sequence 24, Appl
12	263	2.6	3524	4	US-09-077-940A-3 Sequence 3, Appli

13	244.5	2.4	3692	4	US-09-077-940A-1 Sequence 1, Appli
14	228.5	2.3	3694	4	US-09-853-274-3 Sequence 3, Appli
15	228	2.3	3261	4	US-09-853-274-5 Sequence 5, Appli
16	227	2.3	2670	1	US-08-121-713D-61 Sequence 61, Appl
17	227	2.3	2670	1	US-08-835-268-61 Sequence 61, Appl
18	227	2.3	2670	2	US-09-060-692-61 Sequence 61, Appl
19	227	2.3	2670	3	US-08-833-391-61 Sequence 61, Appl
20	227	2.3	2670	2	US-09-060-610-61 Sequence 61, Appl
21	227	2.3	2670	5	PCT-US94-10151A-61 Sequence 61, Appl
22	220	2.2	1923	4	US-09-853-274-12 Sequence 12, Appl
23	216.5	2.2	1024	4	US-09-328-475C-37 Sequence 37, Appl
24	207	2.1	2854	1	US-08-121-713D-57 Sequence 57, Appl
25	207	2.1	2854	2	US-08-835-268-57 Sequence 57, Appl
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29	207	2.1	2854	5	PCT-US94-10151A-57 Sequence 57, Appl
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37	192.5	1.9	3560	2	US-08-835-268-59 Sequence 59, Appl
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39	192.5	1.9	3560	3	US-08-833-391-59 Sequence 59, Appl
40	192.5	1.9	3560	4	US-09-060-610-59 Sequence 59, Appl
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43	186.5	1.9	2504	1	US-08-121-713D-63 Sequence 63, Appl
44	186.5	1.9	2504	1	US-08-835-268-63 Sequence 63, Appl
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ALIGNMENTS

RESULT 1  
US-09-907-794A-169  
; Sequence 169, Application US/09907794A  
; Patent No. 6635468  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/907,794A  
; CURRENT FILING DATE: 2001-07-17  
; PRIOR APPLICATION NUMBER: PCT/US00/04414

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/ PRIOR FILING DATE: 2000-02-22
/ PRIOR APPLICATION NUMBER: US 60/143,048
/ PRIOR FILING DATE: 1999-07-07
/ PRIOR APPLICATION NUMBER: US 60/145,698
/ PRIOR FILING DATE: 1999-07-26
/ PRIOR APPLICATION NUMBER: US 60/146,222
/ PRIOR FILING DATE: 1999-07-28
/ PRIOR APPLICATION NUMBER: PCT/US99/20594
/ PRIOR FILING DATE: 1999-09-08
/ PRIOR APPLICATION NUMBER: PCT/US99/20944
/ PRIOR FILING DATE: 1999-09-13
/ PRIOR APPLICATION NUMBER: PCT/US99/21090
/ PRIOR FILING DATE: 1999-09-15
/ PRIOR APPLICATION NUMBER: PCT/US99/21547
/ PRIOR FILING DATE: 1999-09-15
/ PRIOR APPLICATION NUMBER: PCT/US99/23089
/ PRIOR FILING DATE: 1999-10-05
/ PRIOR APPLICATION NUMBER: PCT/US99/28214
/ PRIOR FILING DATE: 1999-11-29
/ PRIOR APPLICATION NUMBER: PCT/US99/28313
/ PRIOR FILING DATE: 1999-11-30
/ PRIOR APPLICATION NUMBER: PCT/US99/28564
/ PRIOR FILING DATE: 1999-12-02
/ PRIOR APPLICATION NUMBER: PCT/US99/28565
/ PRIOR FILING DATE: 1999-12-02
/ PRIOR APPLICATION NUMBER: PCT/US99/30095
/ PRIOR FILING DATE: 1999-12-16
/ PRIOR APPLICATION NUMBER: PCT/US99/30911
/ PRIOR FILING DATE: 1999-12-20
/ PRIOR APPLICATION NUMBER: PCT/US99/30999
/ PRIOR FILING DATE: 1999-12-20
/ PRIOR APPLICATION NUMBER: PCT/US00/00219
/ PRIOR FILING DATE: 2000-01-05
/ NUMBER OF SEQ ID NOS: 423
/ SEQ ID NO 169
/ LENGTH: 2477
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-907-794A-169

Alignment Scores:
Pred. No.:      8,8e-138      Length:      2477
Score:          1359.50      Matches:      271
Percent Similarity: 69.88%      Conservative: 84
Best Local Similarity: 53.35%      Mismatches: 124
Query Match:      13.61%      Indels:       31
DB:               4          Gaps:         7

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Qy      25  LeuLeuThrArgGlnProAlaProLeuSerGlnLysGlnArgSer-PheValThrPheAr 44
Db      912 -----GGCCCCCGACGCGCATGCTCTCAGTTCAGACCTTCCA 953

Qy      44  gGlyGluProAlaGlu---GlyPheAsnHisLeuValValAspGluArgThrGlyHisI1 63
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143 uGluAspLeuPheLysLeuGlyGluProTyrlHisLysLysGluHisTyrlLeuSerGlyVa 163
1254 GGATGACCTCTTCATCTGTGTGGAGCATCCACCAAGAGGAGCACTACCTGTCTCCAGTGT 1313
163 lAsnGluSerGlySerValPheGlyValIleValSerTyrlSerAsnLeuAspLysIe 183
1314 CAACAAGCGGCGACCATGTACGGGTGATTGTGGCTCTGAGGFGAGGATGGCAAGCT 1373
183 uPheIleAlaThrAlaValAspGlyLysProGluTyrlPheProThrIleSerSerArgLy 203
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1434 GCTGCCCGGAGACCCCTGAGTCTCAGCCATGTCTGACTATGACTACACAGCATTTTGT 1493
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1494 CTCCTCTCTCATCAAGATCCCTTCAGACACCTGGGCCCTGGTCTCCCATCTTGACATCTT 1553
243 rTyrlValTyrlGlyPheSerSerGlyAsnPheValTyrlPheLeuThrLeuGlnProGluMe 263
1554 CTACATCTACGGCTTTGTAGTGGGGCTTTGTCTACTTTCTACTGTCCAGCCCGAG-- 1611
263 tValSerProProGly-----SerThrThrLysGluGlnValTyrlThrSerLysIe 280
1612 ----ACCCCTGAGGTGTGGCCATCACTCCGCTGGAGACCTCTTCTACCTCAGCAT 1667
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1728 CACCGGGCGGGTGGATACCGCTCTCTGAGGCTGTACTTACCTGGCCAGCCCTGGGA 1787
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1848 CAAAGGGCAGAGCAGTATCACCCCGCCGATGACTCTGCCCTGTGTGCTTCCCTAT 1907
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2148 CAACGGCTACAGCGTGGTTTTTGTGGGAGTAAGAGTGGCAGCTGAAAAGGTAAGAT 2207
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RESULT 2  
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; Sequence 169, Application US/09905125A  
; Patent No. 6664376  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Cao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/905,125A  
; PRIOR FILING DATE: 2001-07-12  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
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; PRIOR APPLICATION NUMBER: PCT/US99/23089  
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; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
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; PRIOR FILING DATE: 1999-12-02  
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; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20

; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 169  
; LENGTH: 2477  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-905-125A-169  
Alignment Scores:  
Pred. No.: 8.8e-138 Length: 2477  
Score: 1359.50 Matches: 271  
Percent Similarity: 69.88% Conservative: 84  
Best Local Similarity: 53.35% Mismatches: 124  
Query Match: 13.61% Indels: 31  
DB: 4 Gaps: 7  
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Db 912 -----GGCCCCCAGCAGCGGCTGCTCAGTTCAGCAGCTTTCCA 953  
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QY 63 eTyxLeuGlyAlaValAsnArgIleTyxLeuSerSerAspLeuLysValLeuValTh 83  
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QY 83 rHisGluThrGlyProAspGluAspAsnProLysCysTyxProProArgIleValGlnTh 103  
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QY 103 rCysAsnGluProLeuThrThrThrAsnAsnValAsnLysMetLeuLeuLeuAspTyxLy 123  
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Db 1494 CTCCTCTCTCATCAAGATCCCTTCAGACACCTCGCCCTGGTCTCCGACTTTCATCTT 1553  
QY 243 rTyxValTyxGlyPheSerSerGlyAsnPheValTyxPheLeuThrLeuGlnProGluMe 263  
Db 1554 CTACATCTACGGCTTTGTAGTGGGGGCTTTGTCTACTTTCTCTCACTGTCAGCCCGAG-- 1611

RESULT 3  
US-09-902-775A-189  
US-09-902-775A-189  
; Sequence 169, Application US/09902775A  
; Patent No. 686451  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnovers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Grittisen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.

QY	5	ProTrpAsnTfThrCysLeuLeuSerHisLeuLeuMetValGlyMetGlySerSerThr	24
DB	857	CCCTGGAGGTGGACAGCGCTGTGTG-GTCTGCTCTCAAGT-GGTCTGGGTGTGCT---	911
QY	25	LeuLeuThrArgGlnProAlaProLeuSerGlnLysGlnArgSer-PheValThrPheAr	44
DB	912	-----GGSCCCCCAGACAGCGGGCATGCTCCAGTTCAGTCCAGACACCTTCCA	953

44 gGlyGluProAlaGlu---GlyPheAsnHisLeuValValAspGluArgThrGlyHis11 63  
954 CTCTGAGATCGTGAGTGGACCTTCAACACCTTGGACCGTCCACCAAGGAGCGGGCGCT 1013  
63 eTyLeuGlyAlaValAsnArgIleTyrylsLeuSerSerAspLeuValLeuValth 83  
1014 CTATGTGGGGCCCATCAACCGGTCTATAAGCTGACAGCAACCTCACCATCCAGGTGC 1073  
83 rHisGluThrGlyProAspGluAspAsnProLysCysTyProProArgIleValGlnth 103  
1074 TCATAAGACAGCGCCAGAGAGAGACACAGTCTCGTTACCGCCCTCATGTGAGCC 1133  
103 rCysAsnGluProLeuThrThrThrAsnAsnValAsnLysMetLeuLeuLeuAspTyryl 123  
1134 CTGACGCGAGTCTCTCACCTCCACCAACATGTCACCAAGCTGCTCATCTGACTACTC 1193  
123 sGluAsnArgLeuLeuAlaCysGlySerLeuTyGlnGlyIleCysValLeuLeuArgIle 143  
1194 TGAGAACCGCTCTGCTGGCTGTGGAGCCTCTACAGGGGGTCTGCAAGCTGCTGGCT 1253  
143 uGluAspLeuPheLeuLeuGlyGluProTyryHisLysLysGluHisTyryLeuSerGlyVa 163  
1254 GGATGACCTCTTCATCTCTGTGGAGCCATCCCAAGAGGAGGACACTACTGTGTCCAGTGT 1313  
163 lAsnGluSerGlySerValPheGlyValIleValSerTyrySerAsnLeuAspAspIle 183  
1314 CAACAAGCGGACCATGTACCGGTGATGTGCGCTCTGAGGTGAGGTGAGGCAAGCT 1373  
183 uPheIleAlaThrAlaValAspGlyLysProGluTyryPheProThrIleSerSerArgly 203  
1374 CTTCATCGGACGCTGTGGATGGAGGAGGAGGATTACTTCCGAGCCTGTCCAGCGGAA 1433  
203 sLeuThrLysAsnSerGluAlaAspGlyMetPheAlaTyryValPheHisAspGluPheVa 223  
1434 GCTGCCCGAGACCCGTGAGTCCGACCATGTCTGACTATGAGCTACACAGCGATTTGT 1493  
223 lAlaSerMetIleLysIleProSerAspThrPheThrIleIleProAspPheAspIleTy 243  
1494 CTCCTCTCTCATCAAGATCCCTTCAGACACCCCTGGCCCTGGTCTCCCTTGTGACATCT 1553  
243 rTyryValTyGlyPheSerSerGlyAsnPheValTyryPheLeuThrLeuGlnProGluMe 263  
1554 CTACATCTACGCTTGTGCTAGTGGGGCTTGTCTACTTCTTCTACGTCCAGCCCGAG-- 1611  
263 tValSerProProGly-----SerThrThrLysGluGlnValTyryThrSerLysLe 280  
1612 ----ACCCCTGAGGTGTGCCATCACTCCGCTGGAGACCTTCTACACCTCAGCAT 1667  
280 uValArgLeuCysLysGluAspThrAlaPheAsnSerTyryValGluValProIleGlyCy 300  
1668 CGTGGCGCTCTGCAAGGATGACCCCAAGTTCCACTCATAGTCTGCTGCTGCTTCCGCTG 1727  
300 sGluArgSerGlyValGluTyryArgLeuGlnAlaAlaTyryLeuSerLysAlaGlyAl 320  
1728 CACCGGGCCGGGTGGAATACCGCTCTGCAAGGTGCTTACTGCGCAAGCTGGGA 1787  
320 aValLeuGlyArgThrLeuGlyValHisProAspAspLeuLeuPheThrValPheSe 340  
1788 CTCACCTGGCCAGGCTTCAATATCACAGCCAGGACGATGTACTTTTGGCATCTTCTC 1847  
340 rLysGlyGlnLysArgLysMetLysSerLeuAspGluSerAlaLeuCysIlePheIleLe 360  
1848 CAAGGCGAAGAGAGATCACACCCCGCGATGACTCTGCGCTGTGTGCTTCCCTAT 1907  
360 uLysGlnIleAsnAspArgIleLysGluArgLeuGlnSerCysTyryArgGlyGluGlyTh 380  
1908 CCGGGCCATCACTTGCAGATCAAGGAGCGCTGTCAGTCTGTACAGCGCGAGGCA 1967  
380 rLeuAspLeuAlaThrLeuLysValLysAspIleProCysSerSerAlaLeuLeuThrI 400  
1968 CCTGGAGCTCAACTGGTGTGGGAAAGGACGCTCCAGTGCAGGAAGCGCTTCCCAT 2027  
400 eAspAspAsnPhcCysGlyLeuAspMetAsnAlaProLeuGlyValSerAspMetValAr 420

2028 CGATGATAACTTCTGTGGACTGGACATCAACCCCTGGAGGCTCAACTCCAGTGA 2087  
420 sGlyIleProValPheThrGluAspArgAspArgMetThrSerValIleAlaTyryValTy 440  
2088 GGGCTTACCTGACCTGTACACCAACAGGAGCGCATGACCTCTGTGGCTCTTACGTTA 2147  
440 rLysAsnHisSerLeuAlaPheValGlyThrLysSerGlyLysLeuLysLysIleArgVa 460  
2148 CAACGGCTACAGCTGTTTTTGTGGGACTAAGAGTGGCAAGCTGAAAAAGGTAAGAGT 2207  
460 lAspGlyProArgLysAsnAlaLeuGlnTyryGlu-----ThrValGlnVa 475  
2208 C-----TATGATTTTCAGATGCTTCCCAATGCCATTCACCT 2240  
475 lValAspProGlyProValLeuArgAspMetAlaPheSerLys---AspHisGluGlnLe 494  
2241 CCTCAGCAAGAGTCCCTCTTGGAGGTAGTATGTTGGTGGAGATTAACTATAGGCAACT 2300  
494 uTyryIleMetSerGluArgGln 501  
2301 TTATTTTCTTGGGGAACAAGG 2322  
RESULT 4  
US-09-181-706-1  
; Sequence 1, Application US/09181706  
; Patent No. 6130068  
; GENERAL INFORMATION:  
; APPLICANT: Melanie K. Spriggs, Michael R. Comeau,  
; APPLICANT: Robert F. DuBose, Richard S. Johnson  
; TITLE OF INVENTION: VIRAL ENCODED SEMAPHORIN PROTEIN  
; TITLE OF INVENTION: RECEPTOR DNA AND POLYPEPTIDES  
; NUMBER OF SEQUENCES: 10  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Janis C. Henry  
; STREET: 51 University St.  
; CITY: Seattle  
; STATE: WA  
; COUNTRY: US  
; ZIP: 98101  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/181.706  
; FILING DATE: October 28, 1998  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/958,598 (converted to a  
; APPLICATION NUMBER: Provisional, see below)  
; FILING DATE: October 28, 1997  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: --to be assigned-- (USN 08/958,598  
; APPLICATION NUMBER: conversion to Provisional application)  
; FILING DATE: October 26, 1998  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Henry, Janis C  
; REGISTRATION NUMBER: 34,347  
; REFERENCE/DOCKET NUMBER: 2631-A  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206)470-4189  
; TELEFAX: (206)233-0644  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4707 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA

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; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..4707
US-09-181-706-1

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Alignment Scores:

Pred. No.:	4, 26e-136	Length:	4707
Score:	1349.00	Matches:	480
Percent Similarity:	39.78%	Conservative:	291
Best Local Similarity:	24.77%	Mismatches:	551
Query Match:	13.50%	Indels:	576
DB:	3	Gaps:	74

US-09-964-956-13 (1-1896) x US-09-181-706-1 (1-4707)

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D5		
208	TACAGCCCTGGAGCACAGAGCTCTCGCGCGCTGTATCCGGACCAAGGGGC	255
QY		:::
92	AsnProLysCysTyrProArgIleValGlnThrCysAsnGluProLeuThrThrThr	111
D5		
256	-----AAGTGACAGAGCGCGTCTCGTCGGCGG	282
QY		
112	-----AsnAsnValAsnLysMetLeuLeuIleAspTyrLys	123
D5		
283	CCCCCGCGCGGCCCGCGGAGCATTCAGCAAG--CTGCTGTCGCCCTACC	339
QY		
134	GluAsnArg-----LeuIleAlaCysGlySerLeuTyrGlnGlyIle	137
D5		
340	GAGGGGGCGCGCGCTCGGGGGCGTCTGCTCACCAGCTGAGCTTCACACGGCGGCGGCGCG	399
QY		
138	CysLysLeuLeuArgLeuGluAspLeuPheLysLeuGlyGluProTyrHisLysLysGlu	157
D5		
400	TGCGAGGTGGCGCCCTGGGCAACTG-----AGCGCGAAC	435
QY		
158	HisTyrLeuSerGlyVal-----AsnGluSerGlySerValPheGlyVal	172
D5		
436	TCCCTGCCCAACGGCACCGAGAGTGTTGCTGCGCCACCGCAGGCGCTCGACGGCGCGCGT	495
QY		
173	IleValSerTyrSerAsnLeuAspAspLysLeuPheIleAla-----	186
D5		
436	GTGTACCGC---GGGGCGGAACAACCGGTGGTATTCTGGCGGTGGCGCCACCTACG	552
QY		
187	-----ThrAla	188
D5		
553	CTGCTGAGCGGAGAGCGGCGAGCGGTGCAACCCCGGGGCATCCGACACGACGAGCGCC	612
QY		
189	ValAspGlyLysProGluTyrPheProThrIleSerSerArgLysLeuThrLysAsnSer	208
D5		
613	ATCGCGCTCAAAGACACGAGGGCGGAGCGCTGCGCCACGACGAGCTGGGGCGCTCAAG	672
QY		
209	GluAlaAspGlyMetPheAlaTyrValPheHisAspGluPheVal---AlaSerMetIle	227
D5		
673	CTGTGCGAGCGCGGCGGCGAGCTGCATCTCGTAGCGCTTCTCTGGAACCGCGAGCATC	732
QY		
228	LysIleProSerAspThrPheThrIleIleProAspPheAspIleTyrTyrValTyrGly	247
D5		
733	TACTTCCC-----TACTACCCCTACAC	756
QY		
248	PheSerSerGlyAsnPheValTyrPheLeuThrLeuGlnProGluMetValSerProPro	267
D5		
757	TATACGAGCGGC-----GTCGCCACCGCGCTGGCCCAAGCATGGCGGCGCATCGCG	804
QY		
268	GlySerThrThrLysGluGlnValTyrThrSerLysLeuValArgLeuCysLysGluAsp	287
D5		
805	CAGAGCAC-----GAG	816
QY		
288	ThrAlaPheAsnSerTyrValGluValProIleCysGluArgSerGlyValGlu---	306
D5		
817	GTGCTGTTCCAGGCG-----CAGGATCCCTGCATCTGGCGGCCAGCGCCACCCCGAGCGC	870
QY		

[illegible]

2128	GTTAGCCATGTGCTAAATGACACACCACATGAAATTCCTCTCTCCATCAAGCCGGAAA----	2184	
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2185	---GAAATGAGGATGTGTGTATCCAGTTTGTATGTGTGGGAACCTGCTCTCTGTGGGATCC	2241	
1034	PheGlnTyrValGluAspProThrIleValArgIleGluProGluTTrpSerIleValSer	1053	
2242	TTATCCTACATTCCTCTGCCACATGTTCCTCTATATTTCCCTGCTACCACTCGATCAGT	2301	
1054	GlyAsnThrProIleAlaValTrpGlyThrHisLeuAspLeuIleGlnAsnProGlnIle	1073	
2302	GGTGGTCAAAATATAACCATGATGGGCAGAAATTTGATGTAATTCACAAC-----TTA	2355	
1074	ArgAlaLysHisGlyGlyLysGluHisIleAsnIleCysGluValLeuAsnAlaThrGlu	1093	
2356	ATCATTTCCATGAATTAAGAAAGCAACATAAATGTCTCTCAATATTGTGTGGCGACTTAC	2415	
1094	MetThrCysGlnAlaProAlaLeuAlaLeuGlyProAspHisGlnSerAspLeuThrGlu	1113	
2416	TGCGGGTTTTTAGCCCCCAGTTTA-----	2439	
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2440	-----AAGATTCAAAAGTCGCACGAATGTCACTGTGAAGCTGAGAGTACCAAGAC	2490	
1134	Thr-----AsnPheThrTyrTyrProAsnProValPheGluAlaPheGly	1148	
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1149	ProSerGlyIleLeuGluLeuLysProGlyThrProIleIleLeuLysGlyLysAsnLeu	1168	
2551	-----GTGGAATCCGAGGTGGACACAGAACTGGAAGTGAATAATTCAA-----	2592	
1169	IleProProValAlaGlyAsnValLysLeuAsnTyrThrValLeuValGlyGluLys	1188	
2593	-----AAGAAATGACAACTTCATATATTTCCAAATAA-----	2625	
1189	ProCysThrValThrVal-----SerAspValGlnLeuLeuCysGluSerProAsn	1205	
2626	GACATTTGAAATTTACTCTCTTCATGGGGAAATGGCAATTAATATTCAGTTTTGAAAT	2685	
1206	LeuIle-----	1207	
2686	ATTACTAGAAATCAAGATCTTACCACATCCTTTGCCAAATTAAGAGCATCAAGACTGCA	2745	
1208	-----GlyArgHisLysValMetAlaArgValGlyGlyMetGluTyrSer	1222	
2746	AGCACCATTTGCCAACTCTTCTAGAAAGTTCCGGTCAAGCTGGGAAACCTGGAG-----	2799	
1223	ProGlyMetValTyrIleAlaProAspSer---ProLeuSerLeuProAlaIleValSer	1241	
2800	-----CTCTACGTTCGAGCAGGAGTCAAGTTCCTTCCACATGGTATTTCTTGATTGTG	2850	
1242	IleAlaValAlaGlyGlyLeuLeuIleIlePheIleValAlaValLeuIleAlaTyrLys	1261	
2851	CTCCCTGTC-----TTGCTAGTGATTGTTCATTTTCGGCCGCTGGGGGTGACCCAGG	2901	
1262	ArgLysSerArgLysSerAspLeuThrLeuLysArgLeuGlnMetGlnMetAspAsnLeu	1281	
2902	CACAAATCGAAGGAG-----CTGAGTCGCAACACAGAGTCAA---CAACTAGAAATTCGTG	2952	
1282	GluSerArgValAlaLeuGluCysLysGluAlaPheAlaGluLeuGlnThrAspIleHis	1301	
2953	GAAAGCGAGCTCCGAAAGAGATACGTGACGGCTTTGCTGAGCTGCAGATGGATAAATTTG	3012	
1302	GluLeuThrSerAspLeuAspGlyAlaGly---IleProPheLeuAspTyrArgThrTyr	1320	
3013	GATGTG-----GTTGATAGTTTGGAACTGTTCCCTTCCTTGACTACAAACATTTT	3063	
1321	ThrMetArgValLeuPhePro-----GlyIleGluAspHisProValLeuLeuArgAspLeu	1338	
3064	GCTCTGAGAACTTTCTTCCTGAGTCAGGTGGCTTCCACCACATCTTCATGAAAGATATG	3123	



TELEPHONE: (206) 470-4189  
 TELEFAX: (206) 233-0644  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 4707 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: double  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 1..4707  
 SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
 US-09-458-791-1

# Alignment Scores:

Pred. No.: 4,266-136 Length: 4707  
 Score: 1349.00 Matches: 480  
 Percent Similarity: 39.78% Conservative: 291  
 Best Local Similarity: 24.77% Mismatches: 591  
 Query Match: 13.50% Indels: 576  
 DB: 3 Gaps: 74

US-09-964-956-13 (1-1896) x US-09-458-791-1 (1-4707)

Qy 72 TyrLysLeuSerSerAspLeuLysValLeuValThrHisGluThrGlyProAspGluAsp 91  
 Db 208 TACACCTTGGACACAGCCTCTCGCGCTGTACCGGACCAAGCGGC----- 255  
 Qy 92 AsnProLysCysTyrProProArgIleValGlnThrCysAsnGluProLeuThrThr 111  
 Db 256 -----AACTGCACAGACCGCTCGCTGCGC 282  
 Qy 112 -----AsnValAsnLysMetLeuLeuLeuAspTyrLys 123  
 Db 283 CCCCCCGCGCGCCCGCGGAGACGCTTCAGCAAG-----CTGCTGCTGCCCTACCGC 339  
 Qy 124 GluAsnArg-----LeuIleAlaCysGlySerLeuTyrGlnGlyIle 137  
 Db 340 GAGGCGCGCGCGCTCGGGGGCTGTGCTCACCGCTGACCTTCGACCGGGCGCC 399  
 Qy 138 CysLysLeuLeuArgLeuGluAspLeuPheLysLeuGlyGluProTyrHisLysGlu 157  
 Db 400 TCGAGGTGCGGCCCTGGGCAACCTG-----AGCGCAAC 435  
 Qy 158 HisTyrLeuSerGlyVal-----AsnGluSerGlySerValPheGlyVal 172  
 Db 436 TCCTCGGCACACGACCGAGGTGTGTGTCGCCACCGCGAGGCTCGACGCGCGGTG 495  
 Qy 173 IleValSerTyrSerAsnLeuAspLysLeuPheIleAla----- 186  
 Db 496 GTGTACCGC-----CGGGCGGGAACAACCGCTGTACTGTGGCGTGGCGCCACCTACGTG 552  
 Qy 187 -----ThrAla 188  
 Db 553 CTGCCTGACCGGACGCGGAGCGCTGCAACCCCGCGGCATCCGACCAACGACGCGC 612  
 Qy 189 ValAspGlyLeuProGluTyrPheProThrIleSerArgLysLeuThrLysAsnSer 208  
 Db 613 ATCGCGCTCAAGACACGAGGCGGCGACGCTGGCCACGACGAGCTGGCGGCGCTCAAG 672  
 Qy 209 GluAlaAspGlyMetPheAlaTyrValPheHisAspGluPheVal---AlaSerMetIle 227  
 Db 673 CTGTGCGAGGCGCGGCGAGCTGCACCTTCGTGGAGCGCTTCTCGAACGCGGAGCATC 732  
 Qy 228 LysIleProSerAspThrPheThrIleIleProAspPheAspIleTyrTyrValTyrGly 247  
 Db 733 TACTTCCCC-----TACTACCCCTACCAAC 756  
 Qy 248 PheSerSerGlyAsnPheValTyrPheLeuThrLeuGlnProGluMetValSerProPro 267  
 Db -----

Db 757 TATACGAGCGGC-----GCTGCCACCGGCTGGCCCGCATCGCGCATCGCG 804  
 Qy 268 GlySerThrThrLysGluGlnValTyrThrSerLysLeuValArgLeuCysLysGluAsp 287  
 Db 805 CAGAGCACCC-----GAG 816  
 Qy 288 ThrAlaPheAsnSerTyrValGluValProIleGlyCysGluArgSerGlyValGlu--- 306  
 Db 817 GTGCTGTTCCAGGCG-----CAGGCATCCCTCGACTGGCCACGCGCCACCGACGCG 870  
 Qy 307 TyrArgLeuLeuGlnAlaAlaTyrLeuSerLysAlaGlyAlaValLeuGlyArgThrLeu 326  
 Db 871 CGCGCGCTGCTCTCTCCAGCCTAGTGGAGGCG----- 906  
 Qy 327 GlyValHisProAspAspLeuLeuPheThrValPheSer-----LysGlyGlnLys 344  
 Db 907 -----CTGACGCTCTGGCGGGAGTGTTCAGCGCGCGCCCTGGAGAGGCG 951  
 Qy 345 ArgLysMetLysSerLeuAspGluSerAlaLeuCysIlePheIleLeuLysGlnIleAsn 364  
 Db 952 CAGGAGCGGCGCTCCCGCCACCGACCGCGCTCTGCTCTTCAGATAGTACGATCCAG 1011  
 Qy 365 AspArgIleLysGluArgLeuGlnSerCysTyrArgGlyGluGlyThrLeuAspLeuAla 384  
 Db 1012 GCGCGCGCCAGAGG-----GTCAGC 1032  
 Qy 385 Trp---LeuLysValLysAspIleProCysSerSerAlaLeuLeuThrIleAspAspAsn 403  
 Db 1033 TGGGACTTCAAGACGCGCGAGCCACTGCAAGAAGG----- 1071  
 Qy 404 PheCysGlyLeuAspMetAsnAlaProLeuGlyValSerAspMetValArgGlyIlePro 423  
 Db 1072 -----GATCAACCT-----GAAAGATCCACCCATCGCA 1101  
 Qy 424 ValPheThrGluAspArgAspMetThrSerValIleAlaTyrValTyrLysAsnHis 443  
 Db 1102 TCATCTACCTTGATCCATCCGACCTGACATCGTTTATGGCACCGTGTGTAATGAACAGG 1161  
 Qy 444 SerLeuAlaPheValGlyThrLysSerGlyLysLeuLysIleArgValAspGlyPro 463  
 Db 1162 ACTGTTTATCTTGGGACTCGAGATGGCCAGTTACTTAAGTTATCTT----- 1212  
 Qy 464 ArgGlyAsnAlaLeuGlnTyrGluThrValGlnValVal----- 476  
 Db 1213 ---GGTCAGATTGTGCTCAAAATTCCTCCAGAGTTATCTATGAATTAAGAAGAGACA 1269  
 Qy 477 -----AspProGlyProValLeuArgAspMetAlaPheSerLysAsp 490  
 Db 1270 CCTGTTTCTACAAACTCGTTCCTGATCCTGTG-----AAG 1305  
 Qy 491 HisGluGlnLeuTyrIleMetSerGluArgGlnLeuThrArgValProValGluSerCys 510  
 Db 1306 AATATCTACATTATCTAACAGCTGGGAAGAGAGTGGAGGAATTCGTGTGCAACTGC 1365  
 Qy 511 GlyGlnTyrGlnSerCysGlyGluCysLeuGlySerGlyAspProHisCysGlyTyrCys 530  
 Db 1366 AATAAACATAAATCTGTTCGAGTGTAAACAGCCACAGACCTCACTCGGTTGGTGC 1425  
 Qy 531 ValLeuHisAsnThrCysThrArgLysGluArgCysGluArgSerLysGluProArgArg 550  
 Db 1426 CATTCGCTCAAAAGGTGCATTTTCAAGGAGATTGT----- 1461  
 Qy 551 PheAlaSerGluMetLysGlnCysValArgLeuThrValHisProAsnAsnIleSerVal 570  
 Db 1462 -----GTACATTCAGAGAATCTAGAA--- 1482  
 Qy 571 SerGlnTyrAsnValLeuLeuValLeuGluThrTyrAsnValProGluLeuSerAlaGly 590  
 Db 1483 -----AACTGGCTGGATATTTCTCTGGA 1506  
 Qy 591 ValAsnCysThrPheGluAspLeuSerGluMetAspGlyLeuValGlyAsnGlnIle 610  
 Db 1506 ----- 1506



962 SerArgGlyProMetSerGlyThrGlnValThrIleThrGlyThrAsnLeuAsnAla 981  
2008 CAGAAAGTATCGACATTAGGGAAGCAACGCTAGTAGTAACGGGCAAACTTTACCCGG 2067  
982 GlySerAsnVal---ValValMetPheGlyLysGlnProCys----- 994  
2068 GCATCGAACATCAACAATGATCTCGAAAGGAACAGTACCTGTGTATAGGATGTGATCAG 2127  
995 LeuPheHisArgArgSerProSerTyrlleValCysAsnThrThrSerSerAspGluVal 1014  
2128 GTTAGCCATGTCTAAATGACACCCACATGAAATCTCTCTCCATCAAGCGGAAA--- 2184  
1015 LeuGluMetLys---ValSerValGlnValAspArgAlaIleHisGlnAspLeuVal 1033  
2185 ---GAAATGAAGGATGTGTATCCAGTTGATCGTGGGAACCTCTCTCTGTGGGATCC 2241  
1034 PheGlnTyValGluAspProThrIleValArgIleGluProGluTrpSerIleValSer 1053  
2242 TTATCTCATATGCTCTGCCACATGTTCCCTATATTTCTCTGCTACCCATCGATCAGT 2301  
1054 GlyAsnThrProIleAlaValTrpGlyThrHisLeuAspLeuIleGlnAsnProGlnIle 1073  
2302 GGTGTCAAAATATAACCATGATGGCAGAAATTTGATGTAATGCAAC-----TTA 2355  
1074 ArgAlaLysHisGlyGlyLysGluHisIleAsnIleCysGluValLeuAsnAlaThrGlu 1093  
2356 ATCATTTCAATGATTAAGGAACATAAATGCTCTGTAATATTGTGTGGCAGCTTAC 2415  
1094 MetThrCysGlnAlaProAlaLeuAlaLeuGlyProAspHisGlnSerAspLeuThrGlu 1113  
2416 TCGGGGTTTTAGCCCCAGTTTA----- 2439  
1114 ArgProGluGluPheGlyPheIleLeuAspAsnValGlnSerLeuLeuIleLeuAsnLys 1133  
2440 -----AGAGTTCAAAAGTGGCGACGATGTCACTGTGAAGCTGAGAGTCAAGAC 2490  
1134 Thr-----AsnPheThrTyTrpProAsnProValPheGluAlaPheGly 1148  
2491 ACCTACTTGGATTGTGAACCTCGCAGTATCGGAGGACCCAGAGTTCACGGGTATCGG 2550  
1149 ProSerGlyIleLeuGluLeuLysProGlyThrProIleIleLeuLysGlyLysAsnLeu 1168  
2551 -----GTGGAATCCGAGGTGGACAGAACCTGGGAAGTGAATTCAA----- 2592  
1169 IleProProValAlaGlyLysValLysLeuAsnTyTrpValLeuValGlyGluLys 1188  
2593 -----AAGAAAAATGACAACTTCAATATTTCACAAAAA 2625  
1189 ProCysThrValThrVal-----SerAspValGlnLeuLeuCysGluSerProAsn 1205  
2626 GACATTGAAATTAATCTCTTCCATGGGAAATGGCAATTAATTCAGTTTGAATAAT 2685  
1206 LeuIle----- 1207  
2685 ATTACTAGAAATCAAGATCTTACCACATCTTTGCAAAATTAAGGCATCAAGACTGCA 2745  
1208 -----GlyArgHisLysValMetAlaArgValGlyGlyMetGluTyTrpSer 1222  
2746 AGCACCATTTGCCCACTCTTCTAAGAAAGTTCGGGTCAAGCTGGGAACCTGGAG----- 2799  
1223 ProGlyMetValTyrlleAlaProAspSer---ProLeuSerLeuProAlaIleValSer 1241  
2800 -----CTCTAGTCGACGACGAGTCAGTTCCTCCACATGTAATTTCTGATTGTG 2850  
1242 IleAlaValAlaGlyGlyLeuLeuIlePheIleValAlaValLeuIleAlaTyTrpLys 1261  
2851 CTCCTGTG-----TTGCTAGTGTGTCATTTTTCGGCGCGTGGGTGACCCAGG 2901  
1262 ArgLysSerArgGluSerAspLeuThrLeuLysArgLeuGlnMetGlnMetAspAsnLeu 1281  
2902 CACAATCCGAAGAG-----CTGAGTCGCAACAGAGTCAA---CAACTAGAAATGTGTG 2952  
1282 GluSerArgValAlaLeuGluCysLysGluAlaPheAlaGluLeuGlnThrAspIleHis 1301

611 GlnCysTyTrpSerProAlaAlaLysGluValProArgIleIleThrGluAsnGlyAspHis 630  
1507 -----GCAAAAAGTGCCTAAAT----- 1527  
631 HisValValGlnLeuGlnLeuLysSerLysGluThrGlyMetThrPheAlaSerThrSer 650  
1528 -----CAGATAATTCGAACGAGTAAAGAAAGACTACAGTGAATGTGGGAGC 1578  
651 PheValPheTyTrpAsnCysSerValHisAsnSerCysLeu---SerCysValGluSerPro 669  
1579 TTC-----TCTCCAGACACTCAAGTGAATGTGGTGAAGTGTGGACTTAGC 1626  
670 TyrArgCysHisTrpCysLysTyArgHisValCysThrHisAspProLysThrCysSer 689  
1627 -----AGGAGCTCTGC----- 1638  
690 PheGlnGluGlyArgValLysLeuProGluAspCysProGlnLeuLeuArgValAspLys 709  
1638 ----- 1638  
710 IleLeuValProValGluValIleLysProIleThrLeuLysAlaLysAsnLeuProGln 729  
1639 -----CAGATAAAAGTCAAG 1653  
730 ProGlnSerGlyGlnArgGlyTyTrpGluCysIleLeuAsnIleGlnGlySerGluGlnArg 749  
1654 CCCAACCG-----ACCTGCACCTGTAGCATC----- 1680  
750 ValProAlaLeuArgPheAsnSerSerValGlnCysGlnAsnThrSerTyTrp 769  
1681 -----CCAACGACGACCACTACAAAGATGTTTCAGTTGTCAACGTGATGTTCTCTTC 1734  
770 GluGlyMetGluIleAsnAsnLeuProValGluLeuThrValValTrpAsn-----Gly 787  
1735 GGTTC-----TGAATTTATCAGAC 1755  
788 HisPheAsnIleAspAsnProAlaGlnAsnLysValHisLeuTyLysCysGlyAlaMet 807  
1756 AGATTCACTTACCAAC-----TGCTCATCATTA 1785  
808 ArgGluSerCysGlyLeuCysLeuLysAlaAspProAspPheAlaCysGlyTrpCysGln 827  
1786 AAGAA-----TGCCAGCATGCGTAGAACT-----GCTCGCGGTGCTGTAA 1830  
828 GlyProGlyGlnCysThrLeuArgGlnHisCysProAlaGlnGluSerGlnTrpLeuGlu 847  
1831 AGTCAAGAGGTCT----- 1845  
848 LeuSerGlyAlaLysSerLysCysThrAsnProArgIleThrGluIleIleProValThr 867  
1846 -----ATCCACCCCTTCCACA 1860  
868 GlyProArgGluGlyGlyThrLysValThrIleArgGlyGluAsnLeuGlyLeuGluPhe 887  
1861 CTT----- 1863  
888 ArgAspIleAlaSerHisValLysValAlaGlyValGluCysSerProLeuValAspGly 907  
1864 -----TCT 1875  
908 TyrlleProAlaGluGlnIleValCysGluMet-----GlyGluAla 921  
1876 GATTATGAGAAACCAAGACAGTGTCCAGTGTGCTGCTGCGAAGACATCAGGAGGAGGA 1935  
922 LysProSerGlnHisAlaGlyPheValGluIleCysValAlaValCysArgProGluPhe 941  
1936 AGACCAAGGAGAACAAAGGG-----AACAGA 1962  
942 MetAlaArgSerSerGlnLeuTyTrpPheMetThrLeuThrLeuSerAspLeuLysPro 961  
1963 ACCAACCGAGGCTTACAGGTCTTCTAC-----ATTAAGTCCATTGACCA 2007

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RESULT 6
US-09-459-066-1
; Sequence 1, Application US/09459066
; Patent No. 6187909
; GENERAL INFORMATION:
; APPLICANT: Spriggs, Melanie
; TITLE OF INVENTION: VIRAL ENCODED SEMAPHORIN PROTEIN
; TITLE OF INVENTION: RECEPTOR DNA AND POLYPEPTIDES
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Janis C. Henry
; STREET: 51 University St.
; CITY: Seattle
; STATE: WA
; COUNTRY: US
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS/Windows 95
; SOFTWARE: Word for Windows 95, 7.0a
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/459,066

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	DB	:::	
	QY	ThrThrllysIleGluAsnAspTrpLysArgLeuAsnThrLeuAlaHisTyrGlnValPro	1571
	DB	:::	
	QY	TCCGTGATCTTCGAAGTGGAATCACCAACTAAACACCATTGCCCATATGAGATATCA	1601
	DB	:::	
	QY	AspGlySerValValAlaLeuValSerLysGlnValThrAlaTyrAsnAlaValAsnAsn	1611
	DB	:::	
	QY	SerThrValSerArgThrSerAlaSerLysTyrGluAsnMetIleArgTyrThrGlySer	1631
	DB	:::	
	QY	ProAspSerLeuArgSerArgThrProMetIleThrProAspLeuGluSerGlyValLys	1651
	DB	:::	

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1 FILING DATE:
2 CLASSIFICATION:
3 PRIOR APPLICATION DATA:
4 APPLICATION NUMBER: 08/958,598
5 FILING DATE:
6 ATTORNEY/AGENT INFORMATION:
7 NAME: Henry, Janis C
8 REGISTRATION NUMBER: 34,347
9 REFERENCE/DOCKET NUMBER: 2631
10 TELECOMMUNICATION INFORMATION:
11 TELEPHONE: (206)470-4189
12 TELEFAX: (206)233-0644
13 INFORMATION FOR SEQ ID NO: 1:
14 SEQUENCE CHARACTERISTICS:
15 LENGTH: 4707 base pairs
16 TYPE: nucleic acid
17 STRANDEDNESS: double
18 TOPOLOGY: linear
19 MOLECULE TYPE: cDNA
20 HYPOTHETICAL: NO
21 ANTI-SENSE: NO
22 FEATURE:
23 NAME/KEY: CDS
24 LOCATION: 1..4707
25 US-09-459-066-1
26
27 Alignment Scores:
28 Pred. No.: 4,26e-136 Length: 4707
29 Score: 1349.00 Matches: 480
30 Percent Similarity: 39.78% Conservative: 291
31 Best Local Similarity: 24.77% Mismatches: 591
32 Query Match: 13.50% Indels: 576
33 DB: 3 Gaps: 74
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39 Qy 92 AsnProLysCysTyProProArgIleValGlnThrCysAsnGluProLeuThrThrThr 111
40 Db 256 -----AACTGCACAGACGCGTCTCGCTGGCG 282
41 Qy 112 -----AsnAsnValAsnLysMetLeuLeuIleAspTyrLys 123
42 Db 283 CCCCCCGCGCGCCCCCGCGGAGAGCTTCAGCAAG---CTGCTGCTGCCCTACCGC 339
43 Qy 124 GluAsnA-g-----LeuIleAlaCysGlySerLeuTyrGlnGlyIle 137
44 Db 340 GAGGGGGCGCGCGCTCGGGGGGTGCTGCTCACCGGCTGGACCTTCACCGGGCGGC 399
45 Qy 138 CysLysLeuLeuArgLeuGluAspLeuPheLysLeuGlyGluProTyrHisLysLysGlu 157
46 Db 400 TCGAGGTGCGGCCCTGGGCAACCTG-----AGCCGCAAC 435
47 Qy 158 HisTyrLeuSerGlyVal-----AsnGluSerGlySerValPheGlyVal 172
48 Db 436 TCCCTGCGACACGCGACCGAGGTGCTGCTGCCACCGCAGGCTCGACGCGCGCGTG 495
49 Qy 173 lleValSerTyrSerAsnLeuAspLysLysLeuPheIleAla----- 186
50 Db 496 GTGTACCGC---GCGGGCGGGAACAACCGCTCGTACCTGCGGCTGGCGGCCACCTACG 552
51 Qy 187 -----ThrAla 188
52 Db 553 CTGCCTGACCGGAGACGCGCGCTGCACCCCGCGGCATCCGACCAACGACGCGGC 612
53 Qy 189 ValAspGlyLysProGluTyrPheProThrIleSerSerArgLysLeuThrLysAsnSer 208
54 Db 613 ATCGCGCTCAAGGACACGAGGGGGCGACGCTGGCGCCACGAGAGCTGGGGGCGCCTCAAG 672

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Db 1462 -----GTACATTGAGAACTTAGAA--- 1482  
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QY 631 HisValValGlnLeuLeuLysSerIysGluThrGlyMetThrPheAlaSerThrSer 650  
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Db 1627 -----AGGAGCTCTGC----- 1638  
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QY 1206 LeuIle----- 1207  
Db 2686 ATTACTAGAATCAAGATCTTACCACCATCTTTCGAAATTAAGGCACTAAGACTGCA 2745  
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DB 3526 ATCACTTGCAAGCCCTGACACACTTAATCAAGACTGGCTGTGTGTGGCAGGTTCGGAA 3585

QY 1497 TYrLYSThrLeuValLeuSerCYsVal-----SerProAspAsnAlaAsnSerPro 1513  
DB 3586 TTCAGTACTGTGGCATTTAAACGTCGTCITTTGAAAAAATCCGGAAAAACGAGATGCAGAT 3645

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QY 1531 LysIleLeuAspAlaIlePheLYsAsnValProCysSerHisArgProLYsAlaIleAsp 1550  
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QY 1551 MetAspLeuGluTrpArgGlnGlySerGlyAlaArgMetIleLeuGlnAspGluAspIle 1570  
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QY 1571 ThrThrylSleGluAsnAspTrpLYsArgLeuasnThrLeuAlahisTYrGlnValPro 1590  
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3907	Db	3907	MetValSerGluLeuTyrLeuThrArgSerGluAsnMetIleArgTyrThrGlySer	1630
1631	Qy	1631	MetValSerGluLeuTyrLeuThrArgSerGluAsnMetIleArgTyrThrGlySer	1630
3937	Db	3937	MetValSerGluLeuTyrLeuThrArgSerGluAsnMetIleArgTyrThrGlySer	1630
1651	Qy	1651	MetValSerGluLeuTyrLeuThrArgSerGluAsnMetIleArgTyrThrGlySer	1630
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1789	Qy	1789	MetValSerGluLeuTyrLeuThrArgSerGluAsnMetIleArgTyrThrGlySer	1630
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1809	Qy	1809	MetValSerGluLeuTyrLeuThrArgSerGluAsnMetIleArgTyrThrGlySer	1630
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1849	Qy	1849	MetValSerGluLeuTyrLeuThrArgSerGluAsnMetIleArgTyrThrGlySer	1630
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4618	Db	4618	MetValSerGluLeuTyrLeuThrArgSerGluAsnMetIleArgTyrThrGlySer	1630

## RESULT 7

US-09-459-065-1  
; Sequence 1, Application US/09459065

/ Patent No.: 6302349  
 / GENERAL INFORMATION:  
 /  
 / APPLICANT: Spriggs, Melanie  
 / TITLE OF INVENTION: VIRAL ENCODED SEMAPHORIN PROTEIN  
 / TITLE OF INVENTION: RECEPTOR DNA AND POLYPEPTIDES  
 / NUMBER OF SEQUENCES: 10  
 / CORRESPONDENCE ADDRESS:  
 / ADDRESSEE: Janis C. Henry  
 / STREET: 51 University St.  
 / CITY: Seattle  
 / STATE: WA  
 /

COUNTRY: US  
ZIP: 98101  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: MS-DOS/Windows 95  
SOFTWARE: Word for Windows 95, 7.0a  
CURRENT APPLICATION DATA:  
FILING DATE:  
APPLICATION NUMBER: US/09/459,065  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/958,598  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Henry, Janis C  
REGISTRATION NUMBER: 34,347  
REFERENCE/DOCKET NUMBER: 2631  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206)470-4189  
TELEFAX: (206)233-0644  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 4707 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..4707  
US-09-459-065-1

Alignment Scores:  
Pred. No.: 4707  
Score: 4.26e-136  
Length: 4707  
Matches: 480  
Percent Similarity: 1349.00  
Best Local Similarity: 39.78%  
Query Match: 24.77%  
Indels: 576  
Gaps: 74

US-09-964-956-13 (1-1896) x US-09-459-065-1 (1-4707)

Qy 72 TyrLysLeuSerSerAspLeuLysValLeuValThrHisGluThrGlyProAspGluAsp 91  
Db 208 TAGAGCTGGAGCAGACGCTCTCGCGCTGTACGGGACCAAGCGGGC-----255  
Qy 92 AsnProLysCysTyrProProArgIleValGlnThrCysAsnGluProLeuThrThr 111  
Db 256 -----AACTGCACAGACCGCGTCTCGCTGGCG 282  
Qy 112 -----AsnAsnValAsnLysMetLeuLeuLeuAspTyrLys 123  
Db 283 CCCCCCGCGCGCGCGCGCGGAGAGCAGCTTCAGCAAG---CTGCTGCTGCGCTACCGC 339  
Qy 124 GluAsnArg-----LeuLeuAlaCysGlySerLeuTyrGlnGlyTle 137  
Db 340 GAGGGGGCGCGCGCGCTCGGGGGGTGTGTGTCTCACCCTGACCTTCGACCGGGCGCC 399  
Qy 138 CysLysLeuLeuArgLeuGluAspLeuPheLysLeuGlyGluProTyrHisLysLysGlu 157  
Db 400 TCGAGGTGCGGCGCTGGGCAACCTG-----AGCGCAAC 435  
Qy 158 HisTyrLeuSerGlyVal-----AsnGluSerGlySerValPheGlyVal 172  
Db 436 TCCCTGCGCAGCAGCAGCAGCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 495  
Qy 173 IleValSerTyrSerAsnLeuAspAspLysLeuPheIleAla-----186  
Db 496 GTGTACCGC---CGGGCGCGGAACACACCGCTGTACCTGGCGGTGGCGCCACCTACCTG 552

187 -----ThrAla 188  
553 CTGCTGAGCGGAGACGCGCGCTGCAACCCCGCGGATCCGACACGACACGCGCC 612  
189 ValAspGlyLysProGluTyrPheProThrLysSerArgLysLeuThrLysAsnSer 208  
613 ATCGCGCTCAAGACACGAGCGGCGCGCTGCGCACGACGAGCTGGGGCGCTCAAG 672  
209 GluAlaAspGlyMetPheAlaTyrValPheHisAspGluPheVal---AlaSerMetIle 227  
673 CTGTGCGAGCGCGCGCGCTGCACTTCGTGACCGCTTTCTCTGGAACCGGACATC 732  
228 LysIleProSerAspThrPheThrIleProAspPheAspIleTyrTyrValTyrGly 247  
733 TACTTCCC-----TACTACCCCTACAAC 756  
248 PheSerSerGlyAsnPheValTyrPheLeuThrLeuGlnProGluMetValSerProPro 267  
757 TATACGAGCGC-----GCTGCCACCGCTGCGCCAGCATGCGCGCGCTCGCG 804  
268 GlySerThrThrLysGluGlnValTyrThrSerLysLeuValArgLeuCysLysGluAsp 287  
805 CAGAGCAC-----GAG 816  
288 ThrAlaPheAsnSerTyrValGluValProIleGlyCysGluArgSerGlyValGlu--- 306  
817 GTGCTGTTCCAGGC-----CAGGCATCCCTCGACTGCGGCCACGCGCCACCGACGCG 870  
307 TyrArgLeuLeuGlnAlaAlaTyrLeuSerLysAlaGlyAlaValLeuGlyArgThrLeu 326  
871 CGCGCGCTGCTCTCTCTCCAGCTGAGTGAGGC-----906  
327 GlyValHisProAspAspLeuLeuPheThrPheSer-----LysGlyGlnLys 344  
907 -----CTGCAGCTGCGGGCGGAGTGTTCAGCGCGCGCTGAGAGGCG 951  
345 ArgLysMetLysSerLeuAspGluSerAlaLeuCysIlePheIleLysGlnIleAsn 364  
952 CAGAGCGCGCTGCG 1011  
365 AspArgIleLysGluArgLeuGlnSerCysTyrArgGlyGluGlyThrLeuAspLeuAla 384  
1012 GCGCGCGCGCAAGAG-----GTCAGC 1032  
385 Trp---LeuLysValLysAspIleProCysSerSerAlaLeuLeuThrIleAspAsn 403  
1033 TGGGACTTCAAGACG 1071  
404 PheCysGlyLeuAspMetAsnAlaProLeuGlyValSerAspMetValArgGlyIlePro 423  
1072 -----GATCAACCT-----GAAAGAGTCCAACCAATCGCA 1101  
424 ValPheThrGluAspArgAspArgMetThrSerValIleAlaTyrValTyrLysAsnHis 443  
1102 TCATCTACCTTGATCCATTCCGACCTCGACATCCGTTTATGGCACCGCTGTGTAACAGC 1161  
444 SerLeuAlaPheValGlyThrLysSerGlyLysLeuLysLysIleArgValAspGlyPro 463  
1162 ACGTGTTTATCTGGGACTCGAGATGCCAGTACTTAAAGTTATCTT-----1212  
464 ArgGlyAsnAlaLeuGlnTyrGluThrValGlnValVal-----476  
1213 ---GGTGAGAAATTGACTTCAAAATTGTCCAGAGGTTATCTATGAAATTAAGAAGAGACA 1269  
477 -----AspProGlyProValLeuArgAspMetAlaPheSerLysAsp 490  
1270 CCTGTTTCTACAACTCGTTCCTGATCTCTG-----AAG 1305  
491 HisGluGlnLeuTyrIleMetSerGluArgGlnLeuThrArgValProValGluSerCys 510  
1306 AATATCTACATTTATCTAACAGCTGGGAAAGAGGTGAGGAGAATTCTGTGTTGCAAACTGC 1365  
511 GlyGlnTyrGlnSerCysGlyGluCysLeuGlySerGlyAspProHisCysGlyTrpCys 530

[illegible]



QY 1208 -----GlyArgHisIysValMetAlaArgValGlyGlyMetGluTyrSer 1222  
Db 2746 AGCACCATTGCCAACTCTTCTAAGAAAGTTCGGGTCAAGTCGGGAAACCTGGAG----- 2799  
QY 1223 ProGlyMetValTyrIleAlaProAspSer---ProLeuSerLeuProAlaIleValSer 1241  
Db 2800 -----CTCTACGTCGACGAGGAGTCAGTCTCTCCACATCGTATTTCTCTGATTGTG 2850  
QY 1242 IleAlaValAlaGlyGlyLeuLeuIlePheIleValAlaValLeuIleAlaTyrLys 1261  
Db 2851 CTCCTGTGTC-----TTGCTAGTGAATGTTCTATTTTGGCGCGGTGGGGTGCACGAG 2901  
QY 1262 ArgLysSerArgGluSerAspLeuThrLeuLysArgLeuGlnMetGlnMetAspAsnLeu 1281  
Db 2902 CACAAATCGAAGGAG-----CTGAGTCGCAACACAGTCAA---CAACTAGAAATTCGTG 2952  
QY 1282 GluSerArgValAlaLeuGluCysLysGluAlaPheAlaGluLeuGlnThrAspIleHis 1301  
Db 2953 GAAAGCGAGCTCCGGAAGAGATAGTCACGCGCTTTGCTGAGCTGCAGATGGAATAATG 3012  
QY 1302 GluLeuThrSerAspLeuAspGlyAlaGly-----IleProPheLeuAspTyrArgThrTyr 1320  
Db 3013 GATGTG-----GTTGATAGTTTGGAACTGTTCCTCTCCCTGACTACAAACATTTT 3063  
QY 1321 ThrMetArgValLeuPhePro-----GlyIleGluAspHisProValLeuArgAspLeu 1338  
Db 3064 GCTCTGAGAACCTTTCTCCCTGAGTCAGTGGTGGCTTCACCCACATCTTCCACTGAAGATATG 3123  
QY 1339 GluValProGlyTyrArgGlnGluArgValGluLysGlyLeuLysLeuPheAla----- 1356  
Db 3124 -----CATAAACAGACAGCCCAACGACAGAGATGAAGTCTCACAGCTTGGAT 3171  
QY 1357 GlnLeuIleAsnAsnLysValPheLeuLeuSerPheIleArgThrLeuGluSerGlnArg 1376  
Db 3172 GCCCTAATCTGTAATAAAGCTTTCTGTACTGTCTATCCACACCCCTTGAAGAAGCAGAAG 3231  
QY 1377 SerPheSerMetArgAspArgGlyAsnValAlaSerLeuIleMetThrValLeuGlnSer 1396  
Db 3232 AACTTTTCTGTAAGACAGAGTGTCTGTCTGCTCTCTCTCCCTAACCATTCGACTGCAACACC 3291  
QY 1397 LysLeuGluTyrAlaThrAspValLeuLysGlnLeuLeuAlaAspLeuIleAspLysAsn 1416  
Db 3292 AAGCTGGTCTACTGACAGACATCTAGAGGTGCTGACGAGGACTTGTATGTAACAGTGT 3351  
QY 1417 LeuGluSerLysAsnHisProLysLeuLeuArgArgThrGluSerValAlaGluLys 1436  
Db 3352 -----AGTAACATGACGCGGAACTCATGCTGAGACGACGAGTCCGTCTGCGAANA 3405  
QY 1437 MetLeuThrAsnTrpPheThrPheLeuLeuTyrLysPheLeuLysGluCysAlaGlyGlu 1456  
Db 3406 CTCCTCACAACTGGATGTCGCTCTGCTTTCTGGATTTCTCCGGGAGACTGTCGAGAG 3465  
QY 1457 ProLeuPheSerLeuPheCysAlaIleLysGlnGlnMetGluLysGlyProIleAspAla 1476  
Db 3466 CCCTTCTATTGCTGTGACGACTCTGAACCCAGAAATTAACAGGGTCCCGTGGATGTA 3525  
QY 1477 IleThrGlyGluAlaArgTyrSerLeuSerGluAspLysLeuIleArgGlnGlnIleAsp 1496  
Db 3526 ATCACTTGCAAGCCCTGTACACTTATGAGACTGGCTGTCTGTCGAGGTTCCGGAA 3585  
QY 1497 TyrLysThrLeuValLeuSerCysVal-----SerProAspAsnAlaAsnSerPro 1513  
Db 3586 TTCAGTACTGTGGCATTAAACCTCGCTTTGAAAAAATCCCGGAAACAGAGAGTGCAGAT 3645  
QY 1514 -----GluValProValLysIleLeuAsnCysAspThrIleThrGlnValLysGlu 1530  
Db 3646 GTCTGTGGAAATTTTCAGTCAATGTCTCGACTGTGACACCATTTGGCCACGCCAAGAA 3705  
QY 1531 LysIleLeuAspAlaIlePheLysAsnValProCysSerHisArgProLysAlaAlaAsp 1550  
Db 3706 AAGATTTTCAAGCAATCTTAAGCAAAAATGGCTCTCTCTATGAGACTTCAGCTTAAATGAA 3765

QY 1551 MetAspLeuGluTrpArgGlnGlySerGlyAlaArgMetIleLeuGlnAspGluAspIle 1570  
Db 3766 AITGTCCTTGAGCTTCAATGGGCACACGACAGAAAGAACTTCTGGACATCGACAGTTCC 3825  
QY 1571 ThrThrLysIleGluAsnAspTrpLysArgLeuAsnThrLeuAlaHisIleGlnValPro 1590  
Db 3826 TCCGTGATTCTTGAAGATGGAATCACCAGCTAAACACCATTTGGCCACTATGAGATACA 3885  
QY 1591 AspGlySerValValAlaLeuValSerLysGlnValThrAlaTyrAsnAlaValAsnAsn 1610  
Db 3886 AATGGATCCACATATAAAGTC----- 3906  
QY 1611 SerThrValSerArgThrSerAlaSerLysTyrGluAsnMetIleArgTyrThrGlySer 1630  
Db 3907 -----TTTAAAGAGATAGCAAAATTTTACTTTCAGAT 3936  
QY 1631 ProAspSerLeuArgSerArgThrProMetIleThrProAspLeuGluSerGlyValLys 1650  
Db 3937 GTGAGTACTCGATGACCACTGCCATTTGATTTTACCAGATTCGGAGCA----- 3987  
QY 1651 MetTrpHisLeuValLysAsnHisGluHisGlyAspGlnLysGluClyAspArgGlySer 1670  
Db 3988 ---TTCAAAGATGTGCAAGGAAAGAGACAT-----CGAGGGAAG 4023  
QY 1671 Lys-----MetValSerGluIleTyrLeuThrArgLeuLeuAlaThrLysGlyThrLeu 1688  
Db 4024 CACAAGTTCAAGTAAAGAAATGATCTGCACAAAGCTGCTCGACCAAGGTGGCAATT 4083  
QY 1689 GlnLysPheValAspAspLeuPheGluThrIlePheSerThrAlaHisArgGlySerAla 1708  
Db 4084 CATCTGTGCTTCAAAAACCTTTTACAGCATTTGAGTTTACCCCAAC-----AGCAGA 4137  
QY 1709 LeuProLeuAlaIleLysTyrMetPheAspPheLeuAspGluGlnAlaAspLysHisGly 1728  
Db 4138 GCTCCATTGCTATAAATACATTTTGTGACTTTTGGAGCCCGAGCTGAAAACAAAAA 4197  
QY 1729 IleHisAspProHisValArgHisThrTrpLysSerAsnCysLeuProLeuArgPheTrp 1748  
Db 4198 ATCAGAGATCCTGACGTCGTACATATTTGAAACAAACAGAGCTTCTCTTCCTCTCTGG 4257  
QY 1749 ValAsnMetIleLysAsnProGlnPheValPheAspIleHisLysAsnSerIleThrAsp 1768  
Db 4258 GTAACATCTGAGAACCCCTCAGTTTGTCTTTGACATTAAGAAAGACACCATATAGAC 4317  
QY 1769 AlaCysLeuSerValValAlaGlnThrPheMetAspSerCysSerThrSerGluHisArg 1788  
Db 4318 GGCTGTTTGTGTCAGTGATGCCAGGCATTCATGATGATCTCTCACAGAGCAGCAA 4377  
QY 1789 LeuGlyLysAspSerProSerAsnLysLeuLeuTyrAlaLysAspIleProSerTyrLys 1808  
Db 4378 CTAGGGAAGGAGACCAACACTAATAAGCTTCTATGCCAAGGATATCCCAACCTACAA 4437  
QY 1809 AsnTrpValGluArgTyrTyrSerAspIleGlyLeuMetProAlaIleSerAspGlnAsp 1828  
Db 4438 GAAGAAGTAAATCTTATTACAAAGCAATCAGGATTTGCTCCATTGTCTCTCAGAA 4497  
QY 1829 MetAsnAlaTyrIleAlaGluGlnSerArgMetHisMetAsnGluPheAsnThrMetSer 1848  
Db 4498 ATGGAAGAAATTTTAACCTAGGAATCTAAGAAACATGAAATGAATTAATGAAGAAGTG 4557  
QY 1849 AlaIleSerGluIlePheSerTyrValGlyLysTyrSerGluIleLeuGlyProLeu 1868  
Db 4558 GCCTTGACAGAAATTTACAATATCATCGTAAATATTTTGTGAGATCTTAATAACTA 4617  
QY 1869 AspHisAsp-----AspGlnCysGlyLysGlnLysLeuAlaTyrLysLeu 1883  
Db 4618 GAAAGAGAACCGGGCTGGAAGAAGCTCAGAAACAACTCTTGCATGTGAAAGTC 4671

RESULT 8  
US-03-023-655-603  
; Sequence 603, Application US/09023655  
; Patent No. 6607879  
; GENERAL INFORMATION:

APPLICANT: Cocks, Benjamin G.  
APPLICANT: Susan G. Stuart  
APPLICANT: Jeffrey J. Seilhamer  
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE  
TITLE OF INVENTION: EXPRESSION  
NUMBER OF SEQUENCES: 1508  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
STREET: 3174 PORTER DRIVE  
CITY: PALO ALTO  
STATE: CALIFORNIA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/023,655  
FILING DATE: HEREWITH  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Zeller, Karen J.  
REGISTRATION NUMBER: 37,071  
REFERENCE/DOCKET NUMBER: PA-0001 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 855-0555  
TELEFAX: (650) 845-4166  
INFORMATION FOR SEQ ID NO: 603:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3458 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: THYMNON04  
CLONE: 3191056  
US-09-023-655-603

Alignment Scores:  
Pred. No.: 1.59e-60 Length: 3458  
Score: 657.00 Matches: 146  
Percent Similarity: 61.17% Conservative: 43  
Best Local Similarity: 47.25% Mismatches: 79  
Query Match: 6.58% Indels: 42  
DB: 4 Gaps: 7

US-09-964-956-13 (1-1896) x US-09-023-655-603 (1-3458)

Qy 1615 ArgThrSerAlaSerLysTyrGluAsnMetIleArgTyrThrGly-----SerProAsp 1632  
Db 1420 AGACGTGCGCTTCTGATTAT-----TTTACTGGGGTCCATTGTCAGAT 1464  
Qy 1632 -----1632  
Db 1465 TTTCTTTGATTGTAATAATATATTTTACTTTTCTCTTAATTAATAATGATCCA 1524  
Qy 1633 -----SerLeuArgSerArgThrProMetIleThrProAspLeu 1645  
Db 1525 TATAAAATAAGAAATAAAGTCTTTTAAGGAAGGTTTCTGGCCGAGTGAAGACTTG 1584  
Qy 1646 GluSerGlyValLysMetTyrHisLeuVal---LysAsnHisGluHisGlyAspGlnLys 1664  
Db 1585 GACACA---GAGAAGTATTTCATTCTGCTGCTACGACGAGCT-GGCGGANCACAG 1640  
Qy 1665 GluGlyAspArgGlySer-----LysMetValSerGluIleTyrLeuThrArgLeu 1681  
Db 1641 AAGTCTCAGCGCAGAGCCATCGCAAGAGGTGCTCCCGAAATCTACCTGACCCGCTG 1700

1682 LeuAlaThrLysGlyThrLeuGlnLysPheValAspLeuPheGluThrIlePheSer 1701  
1701 CTCCTCCCAAGGACGTTGCAAGAGTTTCTGGATGACCTGTTCAAGGCCATTTCTGAGT 1760  
1702 ThrAlaHisArgGlySerAlaLeuProLeuAlaIleLysTyrMetPheAspPheLeuAsp 1721  
1761 ATC-----CGTGAAGACAAGCCCTGCTGCTCAANNACTTTTTCGACTTCTCGAN 1814  
1722 GluGlnAlaAspLysHisGlyIleHisAspProHisValArgHisThrLysSerAsn 1741  
1815 GANCAGGCTGAGAAGAGGGGAATCTCGACCCCGACACCTTACATCATCTGGAAGACCAAC 1874  
1742 CysLeuProLeuArgPheTyrValAsnMetIleLysAsnProGlnPheValPheAspIle 1761  
1875 AGCCTTCTCTCCGTTCTGGTGAAACATCTCTGAAGAACCCCTCAGTTTGTCTTGACATC 1934  
1762 HisLysAsnSerIleThrAspAlaCysLeuSerValValAlaGlnThrPheMetAspSer 1781  
1935 GACAAGACAGACACCATCGACGCTGCTTTCAGTCTATCGCGCAGGCTTTCATCGACGCC 1994  
1782 CysSerThrSerGluHisArgLeuGlyLysAspSerProSerAsnLysLeuLysTyrAla 1801  
1995 TGCTCAATCTCTGACCTGACCTGGCAAGGATTCGCCAACCAACACAGCTCTCTACGCC 2054  
1802 LysAspIleProSerTyrLysAsnTyrValGluArgTyrTyrSerAspIleGlyLysMet 1821  
2055 AAGGAGATTCTCTGAGTACCGGAGATGCTGCAGCGCTACTACACAGCAGATCCAGGACATG 2114  
1822 ProAlaIleSerAspGlnAspMetAsnAlaTyrLeuAlaGluGlnSerArgMetHisMet 1841  
2115 AGCGGCTCAGCGACAGAGATGATGCCCATCTGCCGAGGAGTGGAGGAATACGAG 2174  
1842 AsnGluPheAsnThrMetSerAlaLeuSerGluIlePheSerTyrValGlyLysTyrSer 1861  
2175 AATGAGTTCAACACCAATGTGCCATGCGCAGAGATTTATAAGTACGCCAGAGGTATCGG 2234  
1862 GluGluIleLeuGlyProLeuAspHisAspAspGlnCysGlyLysGlnLysLeuAlaTyr 1881  
2235 CCGCAGATCATGGCGCGCTGGAGGCCAACCCCAAGGAGGAGGAGGAGGAGGAGGAGGAG 2294  
2295 AAGTTTGAGCAGGTGGTGGCTTTGATG 2321

RESULT 9  
US-08-306-691B-22  
Sequence 22, Application US/08306691B  
Patent No. 5734039  
GENERAL INFORMATION:  
APPLICANT: Calabretta, Bruno  
APPLICANT: Skorski, Tomasz  
TITLE OF INVENTION: ANTISENSE  
TITLE OF INVENTION: OLIGONUCLEOTIDES TARGETING COOPERATING ONCOGENES  
NUMBER OF SEQUENCES: 55  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Seidel, Gonda, Lavorigna & Monaco, P.C.  
STREET: Two Penn Center, Suite 1800  
CITY: Philadelphia  
STATE: Pennsylvania  
COUNTRY: U.S.A.  
ZIP: 19102  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 720 KB  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WordPerfect 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/306,691B  
FILING DATE: September 15, 1994  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:

```

; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Monaco, Daniel A.
; REGISTRATION NUMBER: 30,480
; REFERENCE/DOCKET NUMBER: 8321-8
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-8383
; TELEFAX: (215) 568-5549
; TELEX: No. 5734039e
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4626 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-08-306-691B-22

Alignment Scores:
Pred. No.: 2,86e-57 Length: 4626
Score: 629.50 Matches: 282
Percent Similarity: 35.47% Conservative: 204
Best Local Similarity: 20.58% Mismatches: 409
Query Match: 6.30% Indels: 475
DB: 1 Gaps: 59

US-09-964-956-13 (1-1896) x US-08-306-691B-22 (1-4626)
Qy 62 HisLeuThrLeuGluAlaValAsnArgIleTyrLysLeuSer---SerAspLeuLysVal 80
Db 375 CACATTTTCCTTGTGGCCACTAATACATTTATGTTTAAATGAGGAGACCTTCAGAAG 434
Qy 81 LeuValThrHisGluThrGlyProAspGluAspAsnProLysCysTyrProProArgIle 100
Db 435 GTTCTGAGTACAAAGATGGCCCTGTCTGGACACACCCACAGATTGTTTCCCA----- 485
Qy 101 ValGlnThrCysAsnGluProLeuThrThr-----AsnAsnValAsn 115
Db 486 TGTGAGGACTGCACACCAAGCAATTTATCAGAGGTGTTTGGAAAGATACATCAAC 545
Qy 116 LysMetLeuLeuIleAsp---TyrLysGluAsnArgLeuLeuAlaCysGlySerLeuTyr 134
Db 546 ATGGCTCTAGTTGTCGACACCTACTATGATGATCACTATTAGCTGTGGCAGCGTCAAC 605
Qy 135 GlnGlyIleCysLysLeuLeuArgLeuGluAspLeuPheLysLeuGlyGluProTyrHis 154
Db 606 AGAGGAGCTGCCAG-----CGACATGCTCTTT-----CCCCAAT 641
Qy 155 LysLysGluHisTyrLeuSerGlyValAsn-----GluSer 166
Db 642 CATACTGCTGACATACATCGAGGTTCCTGCTATATTCCTCCACAGATAGAGAGCCC 701
Qy 167 GlySerValPheGlyValIleValSer-----TyrSerAsnLeuAsp 180
Db 702 AGCCAGTGTCTGACTGTGTGGTGGCGCCCTGGAGCCAAAGTCTCTTTCATCTGTAAAG 761
Qy 181 AspLys-----LeuPheIleAlaThrAlaValAspGlyLysProGluTyrPhePro 197
Db 762 GACCGGTTTCATCAACTCTTTGTAGGCAATACCAATAATTCT-----TCTTATTTCCCA 815
Qy 198 -----ThrIleSerArgLysLeuThrLysAsnSerGluAlaAspGly 212
Db 816 GATCATCATGTCATTCATATCATGAGGAGGCTAAAGGAACGAAA-----GATGGT 869
Qy 213 MetPheAlaTyrValPheHisAspGluPheValAlaSerMetIleLysIleProSerAsp 232
Db 870 ---TTTATGTTTGTGAGGACCACTCTACATT-----899
Qy 233 ThrPheThrIleIleProAspPhe-----AspIleTyrTyrValTyrGlyPhe 248
Db 900 -----GATGTTTTCCTGAGTTCAGAGATTCTTACCCCAATTAAGTATGTCATGCCCTTT 953
Qy 249 SerSerGlyAsnPheValTyrPheLeuThrLeuGlnProGluMetValSerProGly 268

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Db 954 GAAAGCAACAATTTTATTCTTCTTGACGGTCCAAAGGAA----- 995
Qy 269 SerThrThrLysGluGlnValTyrThrSerLysLeuValArgLeuCysGlyGluAspThr 288
Db 996 ---ACTCTAGATGCTCAGACTTTTCCACAAAGATAATCAGGTTCTGTTCATAAAGCTT 1052
Qy 289 AlaPheAsnSerTyrValGluValProIleGlyCys-----Glu 301
Db 1053 GGATTGCTTCTACATGGAATGCTCTGGAGTGATTCTCCACAGAAAAGAAAAG 1112
Qy 302 ArgSerGlyValGlu-----TyrArgLeuLeuGlnAlaAlaTyrLeuSerLysAlaGly 319
Db 1113 AGATCCACAAAGAGAGGAAGTGTGTTAATATCTTACAGGCTGCGTATGTGTCAGCAAGCTGGG 1172
Qy 320 AlaValLeuGlyArgThrLeuGlyValHisProAspAspAspLeuLeuPheThrValPhe 339
Db 1173 GCCCAGCTTGTAGACAAATAGGACCCAGCCGCTGATGATGACATCTTTTCGGGCTGTC 1232
Qy 340 SerLysGlyGlnLysArgLysMetLysSerLeuAspGluSerAlaLeuCysIlePheIle 359
Db 1233 GCACAAAGCAGCCAGACTTCTGCCGAACCAATGATCGATCTGCCATGTGTCATTCCT 1292
Qy 360 LeuLysGlnIleAsnAspArgIleLysGluArgLeuGlnSerCysTyrArgGlyGluGly 379
Db 1293 ATCAATATGTACAGACTTCTTCAACAG-----1322
Qy 380 ThrLeuAspLeuAlaTrpLeuLysValLysAspIleProCysSerSerAlaLeuLeuThr 399
Db 1322 -----1322
Qy 400 IleAspAspAsnPheCysGlyLeuAspMetAsnAlaProLeuGlyValSerAspMetVal 419
Db 1322 -----1322
Qy 420 ArgGlyIleProValPheThrGluAspArgAspArgMetThrSerValIleAlaTyrVal 439
Db 1323 -----ATCGTC 1328
Qy 440 TyrLysAsnHisSerLeuAlaPheValGlyThrLysSerGlyLysLeuLysLysIleArg 459
Db 1329 AACAAAAACAATGTG-----1343
Qy 460 ValAspGlyProArgGlyAsnAlaLeuGlnTyrGluThrValGlnValValAspProGly 479
Db 1344 -----AGATGCTCTCCAGCAT-----1358
Qy 480 ProValLeuArgAspMetAlaPheSerLysAspHisGluGlnLeuTyrIleMetSerGlu 499
Db 1359 -----TTTACGACCCCAATCATGAG-----1379
Qy 500 ArgGlnLeuThrArgValProValGluSerCysGlyGlnTyrGlnSerCysGlyGluCys 519
Db 1379 -----1379
Qy 520 LeuGlySerGlyAspProHisCysGlyTrpCysValLeuHisAsnThrCysThrArgLys 539
Db 1380 -----CACTGC-----TTTAATAGGACACATCTCTGAGAAT 1409
Qy 540 GluArg---CysGluArgSerLysGluProArgArg-----PheAlaSerGluMetLys 556
Db 1410 TCATCAGGCTGTGAACGCCGCGCTGATGATATCGACAGATTTTACACAGCTTTGACAG 1469
Qy 557 GlnCysValArgLeuThrValHisProAsnAsnIleSerValSerGlnTyrAsnValLeu 576
Db 1470 CGCGTT-----GACTTATTATGGTCAATTCAGCGAAGTC 1505
Qy 577 LeuVal-----LeuGluThrThrAsnValProGluLeuSerAlaGlyValAsnCysThr 594
Db 1506 CTTCTTAACATCATATCCACCTTTCATTAAAGGAGACCTC-----ACC 1547
Qy 595 PheGluAspLeuSerGluMetAspGlyLeuValValGlyAsnGlnIleGlnCysTyrSer 614
Db 1548 ATAGCTAATCTTGGGACATCAGAGGTCGCTTCATGCGAGTTGTGTTTCTCGATCAGCA 1607

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QY 615 ProAlaAlaLysGluValProArgIleThrGluAsnGlyAspHisValValGln 634  
DB 1608 CCATCAACCCCTCATGTGAATTTCTCTG-----GACTCCCATCCAGT-- 1652  
QY 635 LeuGlnLeuLysSerLysGluThrGlyMetThrPheAlaSerThrSerPheValPheTyr 654  
DB 1652 ----- 1652  
QY 655 AsnCysSerValHisAsnSerCysLeuSerCysValGluSerProTyrArgCysHisTrp 674  
DB 1653 -----TCCTCCA----- 1658  
QY 675 CysLysTyrArgHisValCysThrHisAspProLysThrCysSerPheGlnGluArg 694  
DB 1658 ----- 1658  
QY 695 ValLysLeuProGluAspCysProGlnLeuLeuArgValAspLysIleLeuValProVal 714  
DB 1658 ----- 1658  
QY 715 GluValIleLysProIleThrLeuLysAlaLysAsnLeuProGlnProGlnSerGlyGln 734  
DB 1659 GAAGTGATGTGGAGCATACATTA-----AACCAA 1688  
QY 735 ArgGlyTyrGluCysIleLeuAsnIleGlnGlySerGluGlnArgValProAlaLeuArg 754  
DB 1689 AATGGCTACACTGGTATCACT----- 1712  
QY 755 PheAsnSerSerSerValGlnCysGlnAsnThrSerTyrSerTyrGluGlyMetGluIle 774  
DB 1713 -----GGGAAGAAGATC 1724  
QY 775 AsnAsnLeuProValGluLeuThrValTrpAsnGly-----HisPheAsn 790  
DB 1725 ACGAATGCCATG-----AATGGCTGGGCTGCAGACATTC----- 1763  
QY 791 IleAspAsnProAlaGlnAsnLysValHisLeuTyrLysCysGlyAlaMetArgGluSer 810  
DB 1764 -----CAGTCC 1769  
QY 811 CysGlyLeuCysLeuLysAlaAspProAspPheAlaCysGlyTrpCysGlnGlyProGly 830  
DB 1770 TGCAGTCAATGCCTCTCTGCCACCCTTTGTTCAGTGTGGTGGTCCAC-----GAC 1823  
QY 831 GlnCysThrLeuArgGlnHisCysProAlaGlnGluSerGlnTrpLeuGluLeuSerGly 850  
DB 1824 AATGTGTGGATCGGAGGNATCC-----CTGAGCGGG 1856  
QY 851 AlaLysSerLys-----CysThrAsnProArgIleThrGluIleProValThrGly 868  
DB 1857 ACATGGACTCAACAGATCTGTCTG-----CCTGCAATCTACAAGGTTTCCCAATAAGTGCA 1913  
QY 869 ProArgGluGlyThrLysValThrIleArgGlyGluAsnLeuGlyLeuGluPheArg 888  
DB 1914 CCCTTGAAGAGGACAGGCTGACATATGTGGCTGGACTTGG-----TTTCGG 1967  
QY 889 -----AspIleAlaSerHisValLysValAlaGlyValGluCysSerPro 903  
DB 1968 AGGAATAATAAATTTGATTTAAAGAAAACTAGAGTTCTCTCGAATAGAGAGTGCACC 2027  
QY 904 LeuValAspGlyTyrIleProAlaGluGlnIleValCysLumetGlyGluAlaLysPro 923  
DB 2028 TTGACTTTAAGTGAGGACGATGATACATTAATGCAATGCACGTTGGT-----CCT 2078  
QY 924 SerGlnHisAlaGlyPheValGluIleCysValAlaValCysArgProGluPheMetAla 943  
DB 2079 GCCATGAATAAGCATTTT-----AATATGTCCATAATATTTCAAATGGCCACGGACAACA 2135  
QY 944 ArgSerSerGlnLeuTyrTyrPheMetThrLeuThrLeuSerAspLeuLysProSerArg 963  
DB 2136 CAATACAGTACATCTCTCTAT-----GTGGATCTGTGTAATAACAGTATTTTCGCGGAATAC 2192

QY 964 GlyProMetSerGlyGlyThrGlnValThrIleThrGlyThrAsnLeuAsnAlaGlySer 983  
DB 2193 GGTCTATGCTGTGTGCACCTTTACTTTTAACTGGAAATTAACATAACAGTGGGAAT 2252  
QY 984 AsnValValValMetPheGlyLysGlnProCysLeuPheHisArgArgSerProSerTyr 1003  
DB 2253 TCTAGACACATTTCAATTTGGTGGAAAAACATGTACTTTAAAAAGTGTGTCAACACAGTATT 2312  
QY 1004 IleValCysAsnThrThrSerSerAspGluValLeuGluMetLysValSerValGlnVal 1023  
DB 2313 CTTGAATGTTATACCCCGAGCCCAACCATTTCACTGAGTTTGTCTGTTAAATTTGAAAAATT 2372  
QY 1024 AspArgAlaLysIleHisGlnAspLeuValPheGlnTyrValGluAspProThrIleVal 1043  
DB 2373 GACTTAGCCCAAC---CGAGAGACAAGCATCTTCAGTTACCGTGAAGATCCCATTTGCTAT 2429  
QY 1044 ArgIleGluProGluTrpSerIleVal----- 1052  
DB 2430 GAATTCATCCACCAAAATCTTTTATTAGTACTTGGTGAAGAACCTCTCAACATTGTC 2489  
QY 1053 -----SerGlyAsnThrProIleAlaValTrpGlyThrHisLeu 1065  
DB 2490 AGTTTTCTATTTCCTTTGCCAGTGTGGAGACAAATAACAGGTGTGGGAAAAACCTG 2549  
QY 1066 AspLeuIleGlnAsnProGln-----IleArgAlaLysHisGlyGlyLysGluHisIle 1083  
DB 2550 AATTCAGTGTGTCGCGAGATGGTCATAAATGTGCATGAAGCAGAGGAAGACTTTACA 2609  
QY 1084 AsnIleCysGluValLeuAsnAlaThrGlu---MetThrCysGlnAlaProAlaLeuAla 1102  
DB 2610 GTGGCATGTCAACATCGCTCTAATTCAGAGATATCTGTTGTACCATCTCTCCCTG--- 2666  
QY 1103 LeuGlyProAspHisGlnSerAspLeuThrGluArgProGluGluPheGlyPheIleLeu 1122  
DB 2667 -----CAACAGCTGAATCTGCAACTCCCTCGAAACCAAGCCCTTT---TTTCATGTTA 2717  
QY 1123 AspAsnValGlnSerLeuLeuIleLeuAsnLysThrAsnPheThrTyrTyrProAsnPro 1142  
DB 2718 GATGGATCTCTTCCAAATACTTT-----GATCTCATTTATGTACATAATCCT 2765  
QY 1143 ValPheGluAlaPheGlyProSerGlyIleLeuGluLeuLysProGlyThrProIleIle 1162  
DB 2766 GTGTTTAAAGCCTTTTGAAGAAGCCAGTGTATCTCAATGGGCAATGAAATGTACTGGAA 2825  
QY 1163 LeuLysGlyLysAsnLeuIleProProValAlaGlyGlyAsnValLysLeuAsnTyrThr 1182  
DB 2826 ATTAAGGGAATGATATTGACCTCTGAAGCAGTTAAAGTCAAGTG----- 2870  
QY 1183 ValLeuValGlyGluLysProCys---ThrValThrValSerAspValGlnLeuLysCys 1201  
DB 2871 TTAAGAGTTGGAATAAGAGCTGTGAGATATACACTTACATTTCTGAAGCCGTTTTATGC 2930  
QY 1202 GluSerProAsn---LeuIleGlyArgHisLysValMetAlaArgValGlyGlyMetGlu 1220  
DB 2931 ACGGTCCCAATGACTGTCTGAATTCGACGAGCTA-----AATATAGAG 2978  
QY 1221 TyrSerPro-----GlyMetValTyrIleAlaProAspSerPro 1233  
DB 2979 TGAAGCAAGCAATTTCTCAACCGCTCTTGGAAAGTAATAGTTCAACAGATCAGAAAT 3038  
QY 1234 LeuSer-----LeuProAlaIleValSerIleAlaValAlaGlyGlyLeuLeuIleIle 1251  
DB 3039 TTCACAGATTGATGTGTGTGTCTCAATATCAACAGACTGTTTATTACTACTTGGG 3098  
QY 1252 PheIleValAlaValLeuIleAlaTyrLysArgLysSerArgGluSerAspLeuThrLeu 1271  
DB 3099 TTTTCTCTGTGGCTGAAAAAGAGAAAGCAATTAAGATCTGGGCACTGAATTAGTTCCG 3158  
QY 1272 LysArgLeuGlnMetGlnMetAspAsnLeuGluSerArgValAlaLeuGluCysLysGlu 1291  
DB 3159 TACGATGCAAGAGTACACACTCTCATTTGGATAGGCTTGTAGTGGCCCGAAGTGTAGC 3218  
QY 1292 AlaPheAlaGluLeuGlnThrAspIleHisGluLeuThrSerAspLeuAspGlyAlaGly 1311

Db 3219 CCAACTACAGAAATGGTTTCAAAAT----- 3242  
Qy 1312 IleProPheLeuAspTyrArgThrTyrThrMetArgValLeuPheProGlyIleGluAsp 1331  
Db 3243 ---GAATCTGTAGACTACCGAGTACTTTTCCAGAAAGATCAGTTTCTTAATTCAATCTCAG 3299  
Qy 1332 HisProValLeuArgAspLeuGluValPro 1341  
Db 3300 AACGGTTTCATGCCGACAAAGTGCAGTATCCT 3329  
RESULT 10  
PCT-US93-06251-27  
; Sequence 27 Application PC/TUS9306251  
; GENERAL INFORMATION:  
; APPLICANT: Wickstrom, Eric and Rife, Jason P.  
; TITLE OF INVENTION: Trivalent Synthesis of Oligonucleotides Containing  
; ; TITLE OF INVENTION: Stereospecific Alkylphosphonates and Arylphosphonates  
; NUMBER OF SEQUENCES: 93  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER  
; STREET: 400 Garden City Plaza  
; CITY: Garden City  
; STATE: NY  
; COUNTRY: USA  
; ZIP: 11530  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US93/06251  
; FILING DATE: 19930630  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Digiglio, Frank S.  
; REGISTRATION NUMBER: 31,346  
; REFERENCE/DOCKET NUMBER: 8596  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 516-742-4343  
; TELEFAX: 516-742-4366  
; TELEX: 230 901 SANS UR  
; INFORMATION FOR SEQ ID NO: 27:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 4626 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
; MOLSCULE TYPE: DNA (genomic)  
PCT-US93-06251-27  
Alignment Scores:  
Pred. No.: 2,866-57 Length: 4626  
Score: 629.50 Matches: 282  
Percent Similarity: 35.47% Conservative: 204  
Best Local Similarity: 20.58% Mismatches: 409  
Query Match: 6.30% Indels: 475  
DB: 5 Gaps: 59  
US-09-964-956-13 (1-1896) x PCT-US93-06251-27 (1-4626)  
Qy 62 HisIleTyrLeuGlyAlaValAsnArgIleTyrLysLeuSer---SerAspLeuLysVal 80  
Db 375 CACATTTCTTGGTGGCCACTACTACATTTATGTTTAAATCAGAGAACCTTCAGAAG 434  
Qy 81 LeuValThrHisGluThrGlyProAspGluAspAsnProLysCysTyrProProArgIle 100  
Db 435 GTTGTGAGTACAAAGACTGGGCTGTGCTGGAACACCCAGATTGTTTCCCA----- 485  
Qy 101 ValGluThrCysAsnGluProLeuThrThr-----AsnAsnValAsn 115  
Db 486 TGTGAGACTGCAGCAGCAAGCAATTTATCAGGAGGTGTTTGGAAAGATACATCAAC 545

Qy 116 LysMetLeuLeuIleAsp---TyrLysGluAsnArgLeuIleAlaCysGlySerLeuTyr 134  
Db 546 ATGGCTCTAGTTGTCGACACCTACTATGATGATCACTCACTAGCTGTGGCAGCGTCAAC 605  
Qy 135 GlnGlyIleCysLysLysLeuArgLeuGluAspLeuPheLysLeuGlyGluProTyrHis 154  
Db 606 AGAGGAGCTGCGCAG---CGACATGCTCTTT-----CCCCACAAT 641  
Qy 155 LysLysGluHisTyrLeuSerGlyValAsn-----GluSer 166  
Db 642 CATACTGCTGACATACAGTCGGAGTTTCTGTCATATTTCTCCACACAGATAGAGAGCC 701  
Qy 167 GlySerValPheGlyValIleValSer-----TyrSerAsnLeuAsp 180  
Db 702 AGCCAGTGTCTGACTGTGTGTGAGCGCCCTGGAGCCAAAGTCTCTTCATCTCTAAAG 761  
Qy 181 AspLys-----LeuPheIleAlaThrAlaValAspGlyLysProGluTyrPhePro 197  
Db 762 GACCGTTCATCAACTTCTTTGTAGGCAATACCATAATTCT-----TCITATTCCCA 815  
Qy 198 -----ThrIleSerSerArgLysLeuThrLysAsnSerGluAlaAspGly 212  
Db 816 GATCATCCATTGCAATTCGATATCAGTGAGAGGCTAAAGGAACGAAA-----GATGCT 869  
Qy 213 MetPheAlaTyrValPheHisAspGluPheValAlaSerMetIleLysIleProSerAsp 232  
Db 870 ---TTTATGTTTGTGAGCAGCAGCTCTACAT----- 899  
Qy 233 ThrPheThrIleIleProAspPhe-----AspIleTyrTyrValTyrGlyPhe 248  
Db 900 -----GATGTTTACCTGAGTTTCAGAGATTCTTACCCCATTAAGTATGTCATGCCCTTT 953  
Qy 249 SerSerGlyAsnPheValTyrPheLeuThrLeuGlnProGluMetValSerProGly 268  
Db 954 GAAAGCAACAATTTTATTACTTCTTGACGGTCCAAAGGGA----- 995  
Qy 269 SerThrThrLysGluGlnValTyrThrSerLysLeuValArgLeuCysLysGluAspThr 288  
Db 996 ---ACTCTAGATGCTCAGACTTTTCACAGAATAATCAGGTTCTGTTCCTCAAAACTCT 1052  
Qy 289 AlaPheAsnSerTyrValGluValProIleGlyCys-----Glu 301  
Db 1053 GGATTGCATCTCTACATGGAATGCTCTGGAGTGATTCTCAGAGAAAGAGAAAAG 1112  
Qy 302 ArgSerGlyValGlu-----TyrArgLeuLeuGlnAlaAlaTyrLeuSerLysAlaGly 319  
Db 1113 AGATCCCAAGAGAGGAGTGTATATATATATCTTACGCTGCGTATGTCAGCAAGCCTGG 1172  
Qy 320 AlaValLeuGlyArgThrLeuGlyValHisProAspAspLeuPheThrValPhe 339  
Db 1173 GCCCAGCTTGTAGACAAATAGGAGCCAGCTGAATGATGACATTTCTTTCCGGGTGTTT 1232  
Qy 340 SerLysGlyGlnLysArgLysMetLysSerLeuAspGluSerAlaLeuCysIlePheIle 359  
Db 1233 GCACAAAGCAGCAGCAGATTCTCGGACCAATGATGATGATGTCATGTCATTCCT 1292  
Qy 360 LeuLysGlnIleAsnAspArgIleLysGluArgLeuGlnSerCysTyrArgGlyGluGly 379  
Db 1293 ATCAATATGTCAACGACTTCTTCAACAAG----- 1322  
Qy 380 ThrLeuAspLeuAlaThrLeuLysValLysAspIleProCysSerSerAlaLeuLeuThr 399  
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Qy 400 IleAspAspAsnPheCysGlyLeuAspMetAsnAlaProLeuGlyValSerAspMetVal 419  
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Qy 420 ArgGlyIleProValPheThrGluAspArgAspArgMetThrSerValIleAlaTyrVal 439  
Db 1323 -----ATCGTC 1328

1764		Db	---	...	CAGTCC	1769
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1770	TGCAGTCATGCTCTCTGCCCCACCCTTTGTTCAGTGCTGGTGGTCCAC	Db	-----	GAC	1823	
831	GlnCysThrLeuArgGlnHisCysProAlaGlnGlnSerClnTrpLeuGluLeuSerGly	QY		850		
1824	AAATGTGTCGATCGGAGAATGC	Db	-----	CTGAGCGGG	1856	
851	AlaLysSerLys	QY	-----	CysThrAsnProArgIleThrGluIleIleProValThrGly	868	
1857	ACATGGACTCAACAGATCTGTCTG	Db	-----	CTGCAATCTACAGGTTTTCCCAATAATGTGA	1913	
869	ProArgGluGlyThrLysValThrIleArgGlyGluAsnLeuGlyLeuGluPheArg	QY		888		
1914	CCCTTTGAAGGAGGACAAGGCTGCACATATGTGGCTGGGACTTTGGA	Db	-----	TTTCGG	1967	
889	-----	QY	-----	AspIleAlaSerHisValLysValalaglyValGluCysSerPro	903	
1968	AGGAATAAATTGATTTAAGAAAACTAGAGTTCTCTTGGAAATGAGAGCTGCACC	Db	-----	2027		
904	LeuValAspGlyTyrrileProAlaGluGlnIleValCysGluMetGlyGluAlaLysPro	QY		923		
2028	TTGACTTTAAGTGAGAGCACGATGAATACATATGAAATGCACATGGT	Db	-----	CCT	2078	
924	SerGlnHisAlaglyPheValGluIleCysValAlaValCysArgProGluPheMetAla	QY		943		
2079	GCATGAATAAGCATTTTC	Db	-----	AATATGTCATAATATTTC	2135	
944	ArgSerSerGlnLeuTyrrPheMetThrLeuThrLeuSerAspLysProSerArg	QY		963		
2136	CAATACAGTACATTCCTCTAT	Db	-----	GTGGATCTCGTAATAACAGTATTTCCGCCGAATAC	2192	
964	GlyPrometSerGlyThrGlnValThrIleThrGlyThrAsnLeuAsnAlaGlySer	QY		983		
2193	GTCTCATGTGCTGGCACTTTACTTACTTTAACGTGAAATTAACCTAAACAGTGGGAAT	Db	-----	2252		
984	AsnValValValMetPheGlyLysGlnProCysLeuPheHisArgArgSerProSerTyr	QY		1003		
2253	TCTAGACATTTCAATTGGTGGAAAAACATGTACTTTAAAGTGTGTCAAACAGTATT	Db	-----	2312		
1004	IleValCysAsnThrThrSerSerAspGluValLeuGluMetLysValSerValGlnVal	QY		1023		
2313	CTTGAATGTTATACCCAGCCCAACCAATTTCACTGAGTTGCTGTATAATTGAAATTT	Db	-----	2372		
1024	AspArgAlaLysIleHisGlnAspLeuValPheGlnTyrrValGluAspProThrIleVal	QY		1043		
2373	GACTTAGCCAAC	Db	-----	CGAGACACAGCATCTTCAGTTCCGTCAGAGATCCCATGTGCTAT	2429	
1044	ArgIleGluProGluTrpSerIleVal	QY	-----	-----	1052	
2430	GAAATTCATCCACCAAAATCTTTTATTAGTACTTGTGGAAAGAACCTCTCAACATTTGC	Db	-----	2489		
1053	-----	QY	-----	SerGlyAsnThrProIleAlaValTrpGlyThrHisLeu	1065	
2490	AGTTTTCTATTTTGTCTTCCAGTGTGGAGACACAATAACAGGTGTGGGAAAAACCTG	Db	-----	2549		
1066	AspLeuIleGlnAsnProGln	QY	-----	IleArgAlaLysHisGlyLysGluHisIle	1083	
2550	AATTCAGTTAGTCTCCGAGAAATGGTCATAAATGTGCATGACACAGGAGGAAGTATTACA	Db	-----	2609		
1084	AsnIleCysGluValLeuAsnAlaThrGlu	QY	-----	MetThrCysGlnAlaProAlaLeuAla	1102	
2610	GTGGCATGCAACATCGCTTAATTCAGAGATAACTGTGTGTGTACCATCTCTCCCTCG	Db	-----	2656		
1103	LeuGlyProAspHisGlnSerAspLeuThrGluArgProGluGluPheIleLeu	QY		1122		
2667	-----	Db	-----	CAACAGCTGAATCTGCAACTCCCCTGAAACCAAGCCTTT	2717	
1123	AspAsnValGlnSerLeuLeuIleLeuAsnLysThrAsnPhetrThyrrTyrrProAsnPro	QY		1142		

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RESULT 11
US-09-300-958A-24
; Sequence 24, Application US/09300958A
; Patent No. 6495319
; GENERAL INFORMATION:
; APPLICANT: McClelland, Michael
; APPLICANT: Welsh, John
; APPLICANT: Trenkle, Thomas
; TITLE OF INVENTION: Reduced Complexity Nucleic Acid Targets and Methods of
; TITLE OF INVENTION: Using Same
; FILE REFERENCE: P-PH 3457
; CURRENT APPLICATION NUMBER: US/09/300,958A
; CURRENT FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/083,331
; PRIOR FILING DATE: 1998-04-27
; PRIOR APPLICATION NUMBER: 60/098,070
; PRIOR FILING DATE: 1998-08-27
; PRIOR APPLICATION NUMBER: 60/118,624
; PRIOR FILING DATE: 1999-02-04
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 24
; LENGTH: 2433
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-300-958A-24

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505	Db	TCGGCCCCACCAAGACTGAGAGTCCCTCAACTGGCTACAGACCTGCCTTTGTGGCC	564
225	Qy	SerMetIleLysIleProSerAspThrPheThrIleIleProAspPheAspIleTyrTyr	244
565	Db	TCGGTCACTGCTCCCCGAGAGCCTGGCGAGCCCATAGGTGATGATCAAGATCACTACTTC	624
245	Qy	ValTyrGlyPheSerSerGlyAsnPheValTyrPheLeuThrLeuGlnProGluMetVal	264
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625	Db	TTCTTCAGCGAGACGGCGCAGGAGTTTGAGTCTCTT-----	660
265	Qy	SerProProGlySerThrThrLysGluGlnValTyrThrSerLysLeuValArgLeuCys	284
661	Db	-----GAGAACACCATCGTGCCCGAGTGTGCCGAGTGTGCCGAGTCTGT	696
285	Qy	LysGluAspThrAla-----PheAsnSerTyrValGluVal	296
697	Db	AGGGCGCATAGGGTGGAGACGGGTGTGCAGCAACGCTGGACCTCCCTTCTCAAGGCT	756
297	Qy	ProIleGlyCysGluArg-----SerGlyValGluTyrArgLeuLeuGlnAlaAlaTyr	314
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QY	315	LeuSerLysAlaGlyAlaValLeuGlyArgThrLeuGlyValHisProAspAsp	-----	332	QY	613	-----	TyrSerProAlaAlaLysGlu	-----	619
Db	817	-----	-----	-----	Db	1837	GCACGCTACTGCCCCAGAGGTGATGGAGGGGGTAATGACCAAAAGAACCGCGTGAT	1896		
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Db	847	AAAGACCCCTTTCATCGGGGTCTTTACCTCCAGTGGCACAGA-----GGGACCAACAGAA	900		Db	1897	GGTACCCCACTGATTATCAACA-----CATCAGAGTGAAGTCCACCGCTGGT	1944		
QY	352	GluSerAlaLeuCysIlePheIleLeuLysGlnIleAsnAspArgIleLysGluArgLeu	371		QY	638	sSerLysGluThrGlyMetThrPheAlaSerThrSerPheValPheTyrAsnCysSerVa	658		
Db	901	GGCTCTGCCATCTGGCTCTTCCACATG-----AATGAT---GTCCAGAGGCCCTTT	948		Db	1945	GGCAGGACAGCTGGGGTGGCGGACCAAGTCTCTAGTAATGAATTCCTGGTGTATGTACT	2004		
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Db	1009	GTGCCACACCCCGCGGGAGCGTGCATTACCAACAGTGCCTGGGAGCGGAAGATCAAC	1068		Db	2027	-----TTTTGT-----TTCGTGTTCTTCTACCGACATCGGGATGGCATG	2067		
QY	411	AlaProLeuGlyValSerAsp-----	417		QY	693	-----GlyArgValLysLeuProGluAspCysProGlnLeu-----	704		
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Db	1189	GTGCACCGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1248		Db	2188	CGAGGCTACCAAGGCTCTGTGCGATAGTCTCCAGGCGCCAGAGTCTTCACTGAATCAGAG	2247		
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Db	1249	GGCGGCTGCACAAAGCAGTGCCTGAGCTGCAGCTCCAGATCCAGATCATT-----GAGGAG	1302		Db	2248	AAGAGGCGCACTGAGCATCCAGGACAGCTTGTAGAGTGTCTCCGCTGTCTCCCGGCC	2307		
QY	473	ValGlnValValAspProGlyProValLeuArgAspMetAlaPheSerLysAspHisGlu	492		QY	746	rglu 747			
Db	1303	CTGCATCTTCCCTCAGAGAGCGCTGTGCAGACCTCTCTTGACAGCCATCGGGGA	1362		Db	2308	CGAG 2311			
QY	493	GlnLeuTyrIleMetSerGluArgGlnLeuThrArgValProValGluSerCysGlyGln	512							
Db	1363	CTGTTGTATGCTTCCCTCCATTCGGGGTGTGTCAAGTCCCGGTAGCCAACTGCAGCGCTG	1422		RESULT 12					
QY	513	TyrGlnSerCysGlyGluCysLeuGlySerGlyAspProHisCysGlyTyr-----	529		US-09-077-940A-3					
Db	1423	TACCCCACTGTGGAGTGCCTCTGCTGCTGAGACCCCTACTGCGCCTGGACTGCTCT	1482		; Sequence 3, Application US/09077940A					
QY	530	---CysValLeuHisAsnThr-----	535		; Patent No. 6576441					
Db	1483	GCCTGCAGGCTGCTAGCTCTACAGCTGATCTGCGCTCCAGGCGCATGGACCCAGGAC	1542		; GENERAL INFORMATION:					
QY	536	-----CysThrArgLysGluArgCysGluArgSerLysGluProArgArgPheAla	552		; APPLICANT: KIMURA, Toru et al.					
Db	1543	ATTGAGGTGCCAGTGTCAAGGAACCTGCAAGAATTCCTCATCAAGGCCCGGTCTT	1602		; TITLE OF INVENTION: NOVEL SEMAPHORIN Z AND GENE ENCODING THE SAME					
QY	553	SerGluMetLysGlnCysValArgLeuThrValHisProAsnAsnIleSerValSerGln	572		; FILE REFERENCE: 0020-4426P					
Db	1603	GTGCCAGGTAAAGCATGTAAACAGTCCAGATCCAAACCAACACAGTGAACACCCCTGGCC	1662		; CURRENT APPLICATION NUMBER: US/09/077,940A					
QY	573	TyrAsnValLeuValLeuGluThr-----TyrAsnValProGluLeuSer	588		; CURRENT FILING DATE: 1998-06-05					
Db	1663	TGCCCACTCTCTCAAACTGGCCCTCGGCTCGGTGTCACAAATCGAGCCCGCAAT	1722		; NUMBER OF SEQ ID NOS: 20					
QY	589	AlaGlyValAsnCysThrPheGluAspLeuSerGluMetAspGlyLeuValValGlyAsn	608		; SOFTWARE: PatentIn version 3.1					
Db	1723	GCCTCTGCTCTGCGCGGTG-----TTACCCACCGGGACCTGCTGTGTGGGCGAG	1776		; SEQ ID NO 3					
QY	609	Gln-----IleGlnCys-----	612		; LENGTH: 3524					
Db	1777	CAGCAGGCTTTGGGGGTGTTCCAGTGTGTGTCATAGAGAGGATTCAGCAGCTGTG	1836		; TYPE: DNA					
					; ORGANISM: Homo sapiens					
					; FEATURE:					
					; NAME/KEY: 5'UTR					
					; LOCATION: (1)..(38)					
					; OTHER INFORMATION:					
					; NAME/KEY: 3'UTR					
					; LOCATION: (2706)..(3524)					
					; OTHER INFORMATION:					
					; NAME/KEY: CDS					
					; LOCATION: (39)..(2702)					
					; OTHER INFORMATION:					
					US-09-077-940A-3					
					Alignment Scores:					
					Pred. No.:					
					Score:					
					Percent Similarity:					
					Best Local Similarity:					
					Length:					
					Matches:					
					Conservative:					
					Mismatches:					

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Query Match: 2.63% Indels: 192
DB: Gaps: 34
US-09-964-956-13 (1-1896) x US-09-077-940A-3 (1-3524)

QY 11 LeuLeuSerHisLeuLeuMetValGlyMetGlySerSerThrLeuLeuThrArgGlnPro 30
DB 75 CTGCTCTTCTGCTGCTACTGCGGG---GGCGCCACGCGCTCTTCTCCTGAGACCCG 131
QY 31 AlaProLeuSerGlnLysGlnArgSerPheValThrPhe----- 43
DB 132 CCGCCGCTTAGCTGCGCCCGGAGGACTACCTGAACCATATCCCGTGTGTGGGCAGC 191
QY 44 -----ArgGlyGluProAlaGluGlyPheAsnHisLeuValValasp----- 57
DB 192 GGGCCCGGAGCGCTGACCCCGGAGAGGTGCTGACGACCTCAACATCCAGCGAGTCCTG 251
QY 58 -----GluArgThrGlyHisIleTyrLeuGlyValAlaValAsnArgIleTyrLysLeu--- 74
DB 252 CGGGTCAACAGGAGC-----CTGTTCAATGGGGACAGGACAACTCTACCGGTAGAG 305
QY 75 -----SerSerAspLeuLysVal-----LeuValThrHisGluThrGly 87
DB 306 CTGAGAGCCCGCCACGCTCCAGGAGCTGCGGTACAGAGGAAGCTGACCTGGAGATCTAAC 365
QY 88 ProAspGluAspAsnProLysCysTyrProArgIleValGlnThrCysAsnGluPro 107
DB 366 CCAGCGACATAACGCTGCTCGGATGAAGGCAAGAGGCGGAGGTGCA----- 419
QY 108 LeuThrThrThrAsnAsnValAsnLysMetLeuLeuIleAspTyrLysGluAsnArgLeu 127
DB 420 -----AATTCGTAAAGGTGCTGCTCTCTCGGGAC-----GAGTCCACGCTC 461
QY 128 IleAlaCysGlySer---LeuTyrGlnGlyIleCysLysLeuLeuArgLeuGluAspLeu 146
DB 462 TTTGTGTGCGGTTCACAGCGCTTCAACCGGTGTGCGCCAACTACAGCATAGACCCCTG 521
QY 147 PheLysLeuGlyGlu-----ProTyrHisLysLysGluHis 158
DB 522 CAGCCGCTCGAGACAATACAGCGGTATGCGCGCTGCGCGTACGACCCCAAG---CAC 578
QY 159 TyrLeuSerGlyValAsnGluSerGlySerValPheGlyValIleValSer----- 175
DB 579 GCCAATGTTGCCCTTCTCTGCGGAGATGCTCTTCAAGCTACTGTACCGACTTCCTA 638
QY 176 -----TyrSerAsnLeuAspLysLeuPheIleAlaThrAlaVal 189
DB 639 GCCATTGATGCTCATCTACCGCAGCGCTCGGGACAGG----- 677
QY 190 AspGlyLysProGluTyrPheProThrIleSerSerArgLysLeuThrLysAsnSerGlu 209
DB 678 -----CCACCGCTCGCACCGCTGAAA----- 698
QY 210 AlaAspGlyMetPheAlaTyrValPheHisAspGluPheValAlaSerMetIleLysIle 229
DB 699 -----CATGAC-----TCCAAAGTGGTCAAGAG 722
QY 230 ProSerAspThrPheThrIleIleProAspPheAspIleTyrTyrValTyrGlyPheSer 249
DB 723 CCT-----TACTTTGTCCATGCGGTGGAG 746
QY 250 SerGlyAsnPheValTyrPheLeuThrLeuGlnProGluMetValSerProGlySer 269
DB 747 TGGGGAGCCCATGCTACTCTTCTTCGCGGAGATGCGATG-----GAGTTT 794
QY 270 ThrThrLysGluGlnValTyrThrSerLysLeuValArgLeuCysLysGluAspThrAla 289
DB 795 AACTACCTGGAGAGGTGTTGTTGCTCCCGCTGCGCGGAGTGTGCAAGACGAGCTGGGA 854
QY 290 -----PheAsnSerTyrValGluValProIleGlyCys 300
DB 855 GGCTCCCCCGCTGCTGGAGAGCAGTGGAGCTCTTCTCTGAAGCGCGGCTCACTGTC 914

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QY 301 GluArgSerGly-----ValGluTyrArgLeuLeuGlnAlaAlaTyrLeuSerLys 317
DB 915 TCTGTACCGGAGACTCCCATTTTCTACTTCAACGTGCTGAGGCTGTC----- 962
QY 318 AlaGlyAlaValLeuGlyArgThrLeuGlyValHisProAspAspLeuLeuPheThr 337
DB 963 ACGGCGCTGTC-----AGCTCGGGCGCGCGCC-----GTGGTCTGGCC 1004
QY 338 ValPheSerLysGlyGlnLysArgLysMetLysSerLeuAspGluSerAlaLeuCysIle 357
DB 1005 GTTTTTC-----ACGCCAGCAACAGCATCCCTGCTGCTGCTGCTGCGGCC 1052
QY 358 PheIleLeuLysGlnIleAsnAspArgIleLysGluArgLeuGlnSerCysTyrArgGly 377
DB 1053 TTGACCTGACACAGGTGGCGAGCTGTGTTGAAGCGCGC-----TTCGAGAG 1100
QY 378 GluGlyThrLeuAspLeuAlaTyrLeuLysValLysAsp-----IlePro----- 392
DB 1101 CAGAAGTCCCGGAGTCCATCTGACGCGGTGCGGAGGATCAGGTGCTCTGACCCCGG 1160
QY 393 -----CysSerSerAlaLeuLeuThrIleAspAsnAsnPheCysGlyLeuAspMetAsn 410
DB 1161 CCCGGGTGCTCGCGAGC-----CCGGGATGCAGTACAT 1196
QY 411 Ala-----ProLeuGlyValSerAspMetValArgGlyIleProValPheThr 426
DB 1197 GCCTCCAGCGCTTCGCGGATGACATCTCACTTTGTCAAGACCCACCTCTGTATGAC 1256
QY 427 GluAsp-----ArgAspArg 431
DB 1257 GAGCGGTGCTCGTGGCGCATCGCCCTGGATCTCGGACCTGATGAGGACCCAG 1316
QY 432 MetThrSerValIleAlaTyrVal-----TyrLysAsnHisSerLeuAlaPhe 447
DB 1317 CTGACTCAGTGTGCTGCGAGCGCGCCCTGGGCAACCCAGACCGTTGTCTTC 1376
QY 448 ValGlyThrLysSerGlyLysLeuLysLysIleArgVal-----Asp 461
DB 1377 CTGGGTTCTGAGCGGGAGCGTCTCAAGTTCCTGCTCGCGCCCAATGCCAGCACCTCA 1436
QY 462 GlyProArgGlyAsnAlaLeuGlnTyrGluThrValGlnValAlaValPro----- 478
DB 1437 GGGAGCTCTGGCTCAGTGTCTTCTGAGGAGTTTGAGACTTACCGCGCGGACAGGTGT 1496
QY 479 -----GlyProValLeuArgAspMetAlaPheSerLysAsp 490
DB 1497 GGACGGCGCGGCTGGCGAGACAGGCGGCTGCTGAGCTTGGAGCTGGACGACGT 1556
QY 491 HisGluGlnLeuTyrIleMetSerGluArgGlnLeuThrArgValProValGluSerCys 510
DB 1557 TCGGGGGCGCTCTGCTGCTGCTTCCCGCTGCGGTGCTCGAGTCCCTGCTGCTGCTG 1616
QY 511 GlyGlnTyrGlnSerCys---GlyGluCysLeuGlySerGlyAspProHisCysGlyTyr 529
DB 1617 CAGCAGTACTCGGGGTGTATGAAGAACTGTATCGGAGCTCAGGACCCCTACTGCGGTGG 1676
QY 530 -----CysValLeuHisAsnThrCysThrArg 538
DB 1677 GCCCGCGAGCGCTCTGTCATCTTCTCAGCCCGGCGACACAGA 1718

RESULT 13
US-09-077-940A-1
; Sequence 1, Application US/09077940A
; Patent No. 6576441
; GENERAL INFORMATION:
; APPLICANT: KIMURA, Toru et al.
; TITLE OF INVENTION: NOVEL SENAPHORIN Z AND GENE ENCODING THE SAME
; FILE REFERENCE: 0020-4426P
; CURRENT APPLICATION NUMBER: US/09/077,940A
; CURRENT FILING DATE: 1998-06-05
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1

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; LENGTH: 3692
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1)..(18)
; OTHER INFORMATION:
; NAME/KEY: CDS
; LOCATION: (19)..(2682)
; OTHER INFORMATION:
; NAME/KEY: 3'UTR
; LOCATION: (2683)..(3653)
; OTHER INFORMATION:
; NAME/KEY: polyA site
; LOCATION: (3654)..(3692)
; OTHER INFORMATION:
US-09-077-940A-1

Alignment Scores:
Pred. No.: 2,86e-15 Length: 3692
Score: 244.50 Matches: 141
Percent Similarity: 35.69% Conservative: 86
Best Local Similarity: 22.17% Mismatches: 206
Query Match: 2.45% Indels: 203
DB: 4 Gaps: 34

US-09-964-956-13 (1-1896) x US-09-077-940A-1 (1-3692)
QY 8 TrpThr-----CysLeuLeuSerHisLeuLeuMetValGly 19
DB 22 TGGACCCCGAGCGCCCTCCACGCCCGGCCCTGCTTCTCTCTCTGTTGCTTCTG 81
QY 20 MetGlySerSerThrLeuLeuThrArgGlnProAlaProLeuSerGlnArgSer 39
DB 82 AGGTCACCCATGGCCTTTTCCAGATGAACACCTCCACTGAGTGTGCTCCAGGAC 141
QY 40 PheValThrPhe-----ArgGlyGluProAlaGlu 49
DB 142 TACCTGAGCCACTACCCCGCTTCGTGGGAGCGGCCCTGCTGCTGACCCCTCAGAG 201
QY 50 GlyPheAsnHisLeuValValasp-----GluArgThrGlyHisIleTyr 64
DB 202 GGTGCTGAGGACCTCAACTCCAGAGAGTGCTACGTGTTAAAGGACA-----CTGTTC 255
QY 65 LeuGlyAlaValAsnArgIleTyrLysLeu-----SerSerAspLeu 78
DB 256 ATCGGGGACAGACACACCTGTACCAAGTAGACTGGAGCATCCACATCCACGGAGCTG 315
QY 79 LysVal-----LeuValThrHisGluThrGlyProAspGluAspAsnProLysCysTyr 96
DB 316 CGGTATACGCGGAAGCTTACCTCGCGCTCCACCCAGTGAC-----357
QY 97 ProProArgIleValGlnThrCys-----AsnGluProLeuThrThrAsn 112
DB 358 -----ATCGATGTGTTCGGATGAGGCGACGAGAGGGTGAGTGTGGAAC 405
QY 113 AsnValAsnLysMetLeuLeuIleAspTyrLysGluAsnArgLeuIleAlaCysGlySer 132
DB 406 TTTGTCAAGGTGCTCTGCTCTCTGAC-----GAATCCACGCTCTCTGTGTGCGGCTCC 459
QY 133 ---LeuTyrGlnGlyIleCysLysLeuLeuArgLeuGluAspLeuPheLysLeuGlyGlu 151
DB 460 AATGCATTCAATCCACTCTGTGCCATTACAGTATGACACACTGGAGCTCTTGGAGAC 519
QY 152 -----ProTyrHisLysLysGluHisTyrLeuSerGlyVal 163
DB 520 AACATCAGTGGTATGGCGCGCTGCCCTTACGACCCCAAG---CATGCCAATGTGCGCCCTC 576
QY 164 AsnGluSerGlySerValPheGlyValIleValSer-----175
DB 577 TTCTCAGATGGATGCTTCTTACAGCCACAGTAAGTAAGTAAGTAAGTAAGTAAGTAAG 636
QY 176 ---TyrSerAsnLeuAspLysLeuPheIleAlaThrAlaValAspGlyLysProGlu 194

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DB 637 ATCTACCGTAGCCTTGGGACCGG-----660
QY 195 TyrPheProThrIleSerSerArgLysLeuThrLysAsnSerGluAlaAspGlyMetPhe 214
DB 661 -----CCCACTGGCAGCAGTAAG-----681
QY 215 AlaTyrValPheHisAspGluPheValAlaSerMetIleLysIleProSerAspThrPhe 234
DB 682 -----CATGAC-----TCCAAGTGGTTTAAAGAGCA-----708
QY 235 ThrIleProAspPheAspIleTyrTyrValTyrGlyPheSerSerGlyAsnPheVal 254
DB 709 -----TACTTTGTGCATCGCGTGGAGTGGGAGGAGCCACGTC 744
QY 255 TyrPheLeuThrLeuGlnProGluMetValSerProProGlySerThrThrLysGluGln 274
DB 745 TACTTCTTCTCCGGGAGATCGCATG-----GAGTTTAATACTATCTGGAAGAG 792
QY 275 ValTyrThrSerLysLeuValArgLeuCysLysLysGluAspThrAla-----289
DB 793 GTGGTGTGTCCCGTGTGGCCCGGTATGCAAGAAATGATGGCGCGCTCCCAACGGGTG 852
QY 290 -----PheAsnSerTyrValGluValProIleGlyCysGluArgSerGly---304
DB 853 CTGGAGAAGCAGTGGACTTCTTCTGAAGCCCGGCTCAACTGCTCCGTCGCTGGGAC 912
QY 305 -----ValGluTyrArgLeuLeuGlnAlaAlaTyrLeuSerLysAlaGlyAlaValLeu 322
DB 913 TCACACTTCTACTTCAATGACTGACGGCTGTG-----ACTGTTGGTG---957
QY 323 GlyArgThrLeuGlyValHisProAspAspLeuLeuPheThrValPheSerLysGly 342
DB 958 -----AGCCTTGGCGCGCTCCA-----GTGATTCTGCTGTTCTCA-----996
QY 343 GlnLysArgLysMetLysSerLeuAspGluSerAlaLeuCysIlePheIleLeuLysGln 362
DB 997 -----ACTCTAGCAACAGCATCCCTGGCTGCTGCTGCTGCTTGCATGAACCAA 1050
QY 363 IleAsnAspArgIleLysGluArgLeuGlnSerCysTyrArgGlyGluGlyThrLeuAsp 382
DB 1051 GTGCTGCTGTGTTGAAGCCGC-----TTCCGGGAGCAGAGTCACTCGAG 1098
QY 383 LeuAlaTrpLeuLysValLysAsp-----IlePro-----CysSerSer 395
DB 1099 TCAATCTGGACCCAGTGCCTGAGGACCAAGTACACAGCCGCCAGCCCGGGTGTGTGCA 1158
QY 396 AlaLeuLeuThrIleAspAspAsnPheCysGlyLeuAspMetAsnAlaProLeuGlyVal 415
DB 1159 GCG-----CCCGTATGCAGTACACAGCATCCCAATGCCCTT 1194
QY 416 SerAsp-----MetValArgGlyIlePro---423
DB 1195 CTGACGAGATTCTCAACTTGTAAAGACCCACCCACTGATGGAGGAGCGGTCCCTCC 1254
QY 424 -----ValPheThrGluAspArgAspArgMetThrSerValIle 436
DB 1255 CTGGGCCACTCGCTTGGATTGTGAGAACTCTGTATAGCCACAGCTGACCCGAGTGGCT 1314
QY 437 AlaTyrVal-----TyrLysAsnHisSerLeuAlaPheValGlyThrLysSer 452
DB 1315 GTGGATGTGGGTGCGAGGCCCATGGGCAATCAGACAATAGTCTTCTTGGCTCTGAGTT 1374
QY 453 GlyLysLeuLysLysIle-----ArgValAspGlyProArgGlyAsn 466
DB 1375 GGCACAGTCTCTCAAAATTCCTTGTGAAGCCCAATGCCAGTGTCTCAGGACCCACAGGCC 1434
QY 467 AlaLeuGlnTyrGluThrValGlnValValAspPro-----478
DB 1435 AGCATCTTTTGGAGGAGTTTGGAGACCTACCGCCAGACAGGTGTGGACGATCCAGCAGT 1494
QY 479 -----GlyProValLeuArgAspMetAlaPheSerLysAspHisGluGlnLeu 494

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1495	GCTGGTCAGTGGGACACACGATCTTCGACCGCTGGAGCTAGATGCTGCCTCAGGTGGCGCTG	1554
Ddb		
495	TyrileMetSerGluArgGlnLeuThrArgValProValGluSerCysGlyGlnTyrGln	514
QY	:: ::	
1555	CTGCACCGCTCCCGCGCTGTGGTGTCTGTCTGTGTGGCGCTGCCAGCTGTACTCG	1614
Ddb		
515	SerCys---GlyGluCysLeuGlySerGlyAspProHisCysGlyTyr	529
QY	:: ::	
1615	GGGTGCATGAAGAACTGCATTGCACCGCCAAAGATCCATACTCGGGGTGG	1662
Ddb		

## RESULT 14

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US-09-653-274-3
; Sequence 3, Application US/09653274
; Patent No. 6635742
; GENERAL INFORMATION:
; APPLICANT: Boyle, Bryan J
; APPLICANT: Yeung, George Y
; APPLICANT: Arterburn, Matthew C
; APPLICANT: Mize, Nancy K
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Drmanac, Radoje T
; TITLE OF INVENTION: Methods and Maaterials Relating to Semaphorin-Like
; and Polypeptides and Polynucleotides
; FILE REFERENCE: HVS-23
; CURRENT APPLICATION NUMBER: US/09/653,274
; CURRENT FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 09/491,404
; PRIOR FILING DATE: 2000-01-10
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 3694
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (434)..(3694)
US-09-653-274-3

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Alignment Scores:

Length:	1.62e-13	3694
Matches:	228.50	130
Conservative:	37.02%	101
Mismatches:	20.83%	227
Indels:	2.39%	167
Gaps:	4	30

US-09-964-956-13 (1-1896) x US-09-653-274-3 (1-3694)

5	ProTrpAsn	-----TrrThrCysLeuLeuSerHisLeuMetValGly	19
422	CCITTTGGCCCA	CATGAGGGTCTTCCTGCTTTGGTCTACATAC	481
20	MetGlySerSerThrLeuLeuThrArgGlnProAlaProLeuSer	-----Gln	35
	:::		:::
482	CAGITGAGGGCAGTCACGCTTCTGAAGATGATGAACCCCTTAATCATGTGCATATCATC	541	
36	LysGlnArgSerPheValThrPheArgGlyGluProAlaGluGlyPheAsnHisLeuVal	55	
	:::		:::
542	TATTCAAGGCAATATCCGGTTTTTAGAGACGCCCTTCAGGCAATGAATCCGACACACAGG	601	
56	ValAsp	-----GluA-gThrGlyHisIleTyrLeuGlyAlaValAsnArg	70
	:::		:::
602	CTGGACTTTCAGTCGTGTTGAAAATTCGACAGACACACTTTATATTGCTGGCAGGATCAA	661	
71	IleTyrIysLeuSerSerAspLeuLysValLeuValThrHisGluThrGlyProAsp	89	
662	GTTTATACAGTA	-----AACTTAATGAATGAAATGCCCAAAACAGAAGTAATATCCCAACAAG	715
90	-----GluAspAsnProLysCys	---TyrProProArgIle	100
716	AAACTGATCGGCATCAAGACAAACAGGATTCAGAAAAACTGCTATCAAGAGCAAGCAT	775	

QY 421 ylleProValPheThrGluasp-----ArgaspArgMetThrSerVal----- 435  
Db 1657 TGAGCCCTGGTTCACAAAGACTCGGTTCAGGTACAGACTGACGGCCATCTCAGTGGAGCA 1716  
QY 436 -lleAlaTyrrValTyrrLysAsnHisSerLeuAlaPheValGlyThrLysSerGlyLysLe 455  
Db 1717 TTCAGCGGACCCCTACAGAGCTACACAGTCATCTTTGTTGGCTCGAAGCTGGCATGT 1776  
QY 455 uLysLysIle----- 458  
Db 1777 ACTTAAAGTTCTGGCAAGACCAAGTCCTTTCTTTTGAACGACAGCGTATTACTGGAAGA 1836  
QY 459 -----ArgValAspGlyProArgGlyAsnAlaLeuGlnTyrrGluThrValGlnValVa 476  
Db 1837 GATTGAAGCTACACCAAGTCGAAGTGCAGTGTGAGATGAGAGACAAAGAGTCAAT 1896  
QY 476 lAspProGlyProValLeuArgAspMetAlaPheSerLysAspHisGluGlnLeuTyrrI 496  
Db 1897 C-----TCATTACAGTTGGATAAAGATCAACACGCTTTTATGT 1935  
QY 496 eMetSerGluArgGlnLeuThrArgValProValGluSerCysGlyGlnTyrrGlnSerCy 516  
Db 1936 GGGTCTCTAGCTGCATTATCCGCAATCCCTCAGTCGCTGAGCGGTATGGATCATG 1995  
QY 516 sGlyGlu---CysLeuGlySerGlyAspProHisCysGlyTyrCysValLeuHisAsnTh 535  
Db 1996 TAAAAAGTCTTGATTGTCATCTCGTACCCGTTATTGTGCTGG---TTAAGCCAGGATC 2052  
QY 535 rCysThrArg 538  
Db 2053 CTGTGGTAGA 2062

RESULT 15  
US-09-653-274-5  
; Sequence 5, Application US/09653274  
; Patent No. 6635742  
; GENERAL INFORMATION:  
; APPLICANT: Boyle, Bryan J  
; APPLICANT: Yeung, George Y  
; APPLICANT: Arterburn, Matthew C  
; APPLICANT: Mize, Nancy K  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Liu, Chenghua  
; APPLICANT: Dmanac, Radoje T  
; TITLE OF INVENTION: Methods and Materials Relating to Semaphorin-Like  
; TITLE OF INVENTION: Polypeptides and Polynucleotides  
; FILE REFERENCE: HYS-23  
; CURRENT APPLICATION NUMBER: US/09/653,274  
; PRIOR APPLICATION NUMBER: 2000-08-31  
; PRIOR FILING DATE: 09/491,404  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 3261  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-653-274-5

Alignment Scores:  
Pred. No.: 1,45e-13 Length: 3261  
Score: 228.00 Matches: 128  
Percent Similarity: 37.30% Conservative: 101  
Best Local Similarity: 20.85% Mismatches: 224  
Query Match: 2.28% Indels: 162  
DB: 4 Gaps: 29  
US-09-964-956-13 (1-1896) x US-09-653-274-5 (1-3261)  
QY 10 CysLeuSerHisLeuMetValGlyMetGlySerSerThrLeuLeuThrArgGln 29  
Db 19 TGTGCTACATATCTGCTGTTGTTTCCAGTTCAGGCGAGTCTTCTCTGAGAT 78

QY 30 ProAlaProLeuSer-----GlnLysGlnArgSerPheValThrPheArgGly 45  
Db 79 GATGAACCCCTTATATCTGCTGACTATCACTATTCAAGGCAATATCCGTTTTTAGAGGA 138  
QY 46 GluProAlaGluGlyPheAsnHisLeuValValAsp-----GluArgThr 60  
Db 139 CGCCCTTCAGGCAATGATCGCAGCAGAGCTTTCAGCTGATGTTGAAATTCGA 198  
QY 61 GlyHisIleTyrrLeuGlyAlaValAsnArgIleTyrrLysLeuSerSerAspLeuLysVal 80  
Db 199 GACACACTTATATTGCTGCGAGGATCAAGTTTATACAGTA-----AACTTAAATGAA 252  
QY 81 LeuValThrHisGluThrGlyProAsp-----Gluasp 91  
Db 253 ATGCCCAAAACAGAAAGTAATACCCACAAAGAACTGACATGGCGATCAAGACACAGAT 312  
QY 92 AsnProLysCys---TyrrProArgIleValGlnThrCysAsnGluProLeuThrThr 110  
Db 313 CGAGAAACTGCTGATGAAAGGCAAGCATAAAGATGAATGCCACAACTTTATC----- 366  
QY 111 ThrAsnAsnValAsnLysMetLeuLeuIleAspTyrrLysGluAsnArgLeuIleAlaCys 130  
Db 367 -----AAAGTATTGTTTCCAAAGAACGATGAGATGGTGTGTTTGTGT 408  
QY 131 Gly---SerLeuTyrrGlnGlyIleCysLysLeuLeuArgLeuGluAspLeuPheLysLeu 149  
Db 409 GGTACCAATGCAATCCATGCTGATAGTACTACAGGTTGAGTACCTTTAGAATATGAT 468  
QY 150 GlyGluProTyrrHisLysLysGluHisTyrrLeuSerGlyVal----- 163  
Db 469 GGGGAAGAA-----ATTAGTGGCTGGCAAGATGCCAATTTGAT 507  
QY 164 -----AsnGluSerGlySerValPheGlyValIleValSerTyrrSerAsnLeuAspAsp 181  
Db 508 GCCAGACAAACCAATGTTGCCCTTTTGTCT-----GATGGG 543  
QY 182 LysLeuPheIleAlaThrAlaValAspGlyLysProGluTyrrPheProThrIleSerSer 201  
Db 544 AAGCTGATTCTGCCACAGTGGCTGAC-----TTCTGGCCAGC 582  
QY 202 ArgLysLeuThrLysAsnSerGluAlaAspGlyMetPheAlaTyrrValPheHisAspGlu 221  
Db 583 GATGCCGTATTATCGAAGCATGGGTGATGGATCTGCCCTTCGCAACA-----AAA 636  
QY 222 PheValAlaSerMetIleLysIleProSerAspThrPheThrIleIleProAspPheAsp 241  
Db 637 TATGATTCCAAATCGATAAAAGAGCCA----- 663  
QY 242 IleTyrrValTyrrGlyPheSerSerGlyAsnPheValTyrrPheLeuThrLeuGlnPro 261  
Db 664 ---CACTTTCTTCATGCCATAGATATGAAACTATGTTCTTCTTCTTCGAGAA--- 717  
QY 262 GluMetValSerProGlySerThrThrLysGluGlnValTyrrThrSerLysLeuVal 281  
Db 718 -----ATCGCTGTGGAACATAATAATTAGCAAGGCTGTGTAT---TCCCGCGTGGCC 768  
QY 282 ArgLeuCysLysGluAspThrAla-----PheAsnSer 292  
Db 769 CGCATATGTAAAAACGACATGGGTGGTTCACAGGGTCTCTGGAGAAACACTGGACTTCA 828  
QY 293 TyrValGluValProIleGlyCysGluArgSerGly-----Val 305  
Db 829 TTTCTAAAGGCTCGGCTGAACCTGTTCTGCTCCCTGGAGATCGGTTTTTCTACTTTGATGTT 888  
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Search completed: May 23, 2004, 13:11:58  
Job time : 391 secs

GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: May 23, 2004, 12:30:30 ; Search time 1094 Seconds  
(without alignments)  
7876.420 Million cell updates/sec

Title: US-09-964-956-13  
Perfect score: 9990  
Sequence: 1 MKAMPNWTCLLSHLLMVG.....QKLAYKLEQVITLMSLDNSK 1896

Scoring table: BLOSUM62  
Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 2953838 seqs, 2272363821 residues

Total number of hits satisfying chosen parameters: 5907676

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Command line parameters:  
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Database : Published Applications NA:  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	DB ID	Description
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RESULT 1

US-09-964-956-12  
; Sequence 12, Application US/09964956  
; Publication No. US20040043926A1  
; GENERAL INFORMATION:  
; APPLICANT: Gerlach, Valerie L  
; APPLICANT: MacDougall, John R  
; APPLICANT: Smithson, Glennda  
; APPLICANT: Millet, Isabelle  
; APPLICANT: Stone, David  
; APPLICANT: Gunther, Erik  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Grosse, William M  
; APPLICANT: Alsobrook II, John P  
; APPLICANT: Lepley, Denise M  
; APPLICANT: Burgess, Catherine E  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Kekuda, Ramesh  
; APPLICANT: Spytek, Kimberly A  
; APPLICANT: Leach, Martin D  
; APPLICANT: Shimkets, Richard A  
; TITLE OF INVENTION: No. US20040043926A1 Proteins and Nucleic Acids Encoding Same  
; FILE REFERENCE: 21402-124

ALIGNMENTS

1	9979.5	99.9	5691	13	US-09-964-956-12	Sequence 12, Appl
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3	6765	67.7	6730	15	US-10-175-523-95	Sequence 95, Appl
4	6357	63.6	6147	13	US-10-312-352-70	Sequence 70, Appl
5	6267.5	62.7	5895	13	US-10-087-684-31	Sequence 31, Appl
6	6267.5	62.7	5895	13	US-10-218-779-31	Sequence 31, Appl
7	2580	25.8	6252	9	US-09-964-824A-313	Sequence 313, App
8	2580	25.8	6252	10	US-09-930-713-254	Sequence 254, App
9	2539	25.4	6329	13	US-10-276-774-838	Sequence 838, App
10	2475.5	24.8	6754	13	US-10-240-425-350	Sequence 350, App
11	2471	24.7	7080	13	US-10-276-774-729	Sequence 729, App
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14	1573.5	15.8	1088	13	US-10-276-774-773	Sequence 773, App
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; CURRENT APPLICATION NUMBER: US/09/964,956  
 ; CURRENT FILING DATE: 2001-09-26  
 ; PRIORITY APPLICATION NUMBER: 60/235,631  
 ; PRIORITY FILING DATE: 2000-09-27  
 ; PRIORITY APPLICATION NUMBER: 60/235,633  
 ; PRIORITY FILING DATE: 2000-09-27  
 ; PRIORITY APPLICATION NUMBER: 60/235,808  
 ; PRIORITY FILING DATE: 2000-09-27  
 ; PRIORITY APPLICATION NUMBER: 60/236,064  
 ; PRIORITY FILING DATE: 2000-09-27  
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 ; PRIORITY APPLICATION NUMBER: 60/236,135  
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 ; PRIORITY APPLICATION NUMBER: 60/237,434  
 ; PRIORITY FILING DATE: 2000-10-03  
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 ; PRIORITY FILING DATE: 2000-10-05  
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 ; PRIORITY FILING DATE: 2000-10-06  
 ; PRIORITY APPLICATION NUMBER: 60/276,667  
 ; PRIORITY FILING DATE: 2001-03-16  
 ; PRIORITY APPLICATION NUMBER: 60/294,823  
 ; PRIORITY FILING DATE: 2001-05-31  
 ; PRIORITY APPLICATION NUMBER: 60/304,868  
 ; PRIORITY FILING DATE: 2001-07-12  
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 ; ORGANISM: Homo sapiens  
 ; US-09-964-956-12

Alignment Scores:

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Qy 1181 TyrThrValLeuValGlyGluLysProCysThrValThrValSerAspValGlnLeuLeu 1200  
Db 3541 TACACTGTGCTGTGGGAGAGCGGTGCACCGTGACCGTGTCAAGTGTCCAGTGTCTC 3600  
Qy 1201 CysGluSerProAsnLeuIleGlyArgHisValMetAlaArgValGlyMetGlu 1220  
Db 3601 TGGGAGTCCCCCAACCTCATCGGAGGACCAAGTGTATGGCCCGTGTGGTGGCATGGAG 3660

1221 TyrSerProGlyMetValTyrIleAlaProAspSerProLeuSerLeuProAlaIleVal 1240  
3661 TACTCCCGGGATGGTGTACATGGCCCGGACAGCCCGCTCAGCGTCCCGCATCGTC 3720  
1241 SerIleAlaValAlaGlyLeuLeuIleIlePheIleValAlaValLeuIleAlaTyr 1260  
3721 AGCATCGCATGGCTGGCGGCTCCATCATTTTCATCGTGGCGGCTGCTATTGCCAT 3780  
1261 LysArgLysSerArgGluSerAspLeuThrLeuLysArgLeuGluMetGlnMetAspAsn 1280  
3781 AAACGCAAGTCCCGCAAGTAGTACCTCACGCTGAAGCGGCTGCAGATGCAGTGCAC 3840  
1281 LeuGluSerArgValAlaLeuGluCysLysGluAlaPheAlaGluLeuGlnThrAspIle 1300  
3841 CTGGAGTCCCGTGTGGCCCTGGAGTCAAGGAAGCCCTTTGCCGAGCTGCAGACGACATC 3900  
1301 HisGluLeuThrSerAspLeuAspGlyAlaGlyIleProPheLeuAspTyrArgThrTyr 1320  
3901 CATGACCTGACCACTGACCTGGATGGAGCCGGGATTCGTTCTCGGACTATAGAACTTAC 3960  
1321 ThrMetArgValLeuPheProGlyIleGluAspHisProValLeuAspLeuGluVal 1340  
3961 ACCATCGGGTGTGTTCCAGGAATTGAAGACCAACCCCTGCTCCCGGACCTTGAGGTC 4020  
1341 ProGlyTyrArgGlnGluArgValGluLysGlyLeuLysLeuPheAlaGlnLeuIleAsn 1360  
4021 CCGGGCTACCGCAGAGAGGTGTGGAGAAAGCCCTGAAGCTTTTCCCGCAGCTCATCAAC 4080  
1361 AsnLysValPheLeuLeuSerPheIleArgThrLeuGluSerGlnArgSerPheSerMet 1380  
4081 AACCAAGTGTCTGCTGCTCTTCATCCGACGCTTGTAGTCCAGCGTAGCTTCTCATG 4140  
1381 ArgAspArgGlyAsnValAlaSerLeuIleMetThrValLeuGlnSerLysLeuGluTyr 1400  
4141 CGGACCGTGGCAACGTGGCCCTCCTCATCATGACCGCTGCTGCAGAGCAAGCTGGAGTAC 4200  
1401 AlaThrAspValLeuLysGlnLeuLeuAlaAspLeuIleAspLysAsnLeuLysLys 1420  
4201 GCCACTGATGTGCTGAAGCAGCTGCTGGCCGACCTCATTTGACAAACCTGGAGAGCAAG 4260  
1421 AsnHisProLysLeuLeuLeuArgArgThrGluSerValAlaGluLysMetLeuThrAsn 1440  
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1441 TrpPheThrPheLeuLeuTyrLysPheLeuLysGluCysAlaGlyGluProLeuPheSer 1460  
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1461 LeuPheCysAlaIleLysGlnMetGluLysGlyProIleAspAlaIleThrGlyGlu 1480  
4381 CTGTTCTGTGCCATCAAGCAGCAGATGGAGAAAGGGCCCATTTGACGCCATCACGGGCGAG 4440  
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1521 AsnCysAspThrIleThrGlnValLysGluLysIleLeuAspAlaIlePheLysAsnVal 1540  
4561 AACTGTGACACCATCTACTAGGTCAAGGAGGAAGATTCTGGATGCCATCTTCAAGATGTG 4620  
1541 ProCysSerHisArgProLysAlaAlaAspMetAspLeuGluTrpArgGlnGlySerGly 1560  
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1561 AlaArgMetIleLeuGlnAspGluAspIleThrThrLysIleGluAsnAspTrpLysArg 1580  
4681 GCAAGGATGATCTTGACGGATGAGACATCACCAAGATGAGAAATGATTGGAGGCGA 4740  
1581 LeuAsnThrLeuAlaHisTyrGlnValProAspGlySerValValAlaLeuValSerLys 1600

4741 CTGAACACACTGGCCCACTACCAAGTGCAGATGGTTCCGTGTGGCAATTAGTGTCCAAG 4800  
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4801 CAGGTGACAGCTTATAACGAGTGAACAACCTCACCGTCTCCAGGACCTCAGCAAGTAAA 4860  
1621 TyrGluAsnMetIleArgTyrThrGlySerProAspSerLeuArgSerArgThrProMet 1640  
4861 TATGAATAACATGATCCGGTACACGGGACGCCCCGACAGACCTCCGCTCACGACACCTATG 4920  
1641 IleThrProAspLeuGluSerGlyValLysMetTrpHisLeuValLysAsnHisGluHis 1660  
4921 ATCACTCTCAGCTGGAGAGTGGAGTCAAGATGTGCACCTAGTGAAGAACACGAGCAC 4980  
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1681 LeuLeuAlaThrLysGlyThrLeuGlnLysPheValAspAspLeuPheGluThrIlePhe 1700  
5041 CTCCTGCCACTAAGGACACACTGCAGAAAGTTTGTGGATGACCTCTTTGAGACCATCTTC 5100  
1701 SerThrAlaHisArgGlySerAlaLeuProLeuAlaIleLysTyrMetPheAspPheLeu 1720  
5101 AGCACGGCACACCGTGGCTCTGCCCTGCCCTGGCCATCAAGTACATGTTTGACTTCCTG 5160  
1721 AspGluAlaAspLysHisGlyIleHisAspProHisValArgHisThrTrpLysSer 1740  
5161 GATGAGCAGGCTGATAAACATGCAATCATGACCCGACCTCGCCCATACCTGGAAGAGC 5220  
1741 AsnCysLeuProLeuArgPheTrpValAsnMetIleLysAsnProGlnPheValPheAsp 1760  
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1761 IleHisLysAsnSerIleThrAspAlaCysLeuSerValAlaGlnThrPheMetAsp 1780  
5281 ATCCATAAGAACAGCATCACAGACGCTGCTCTGTGTGGTGGCTCAGACCTTCATGGAC 5340  
1781 SerCysSerThrSerGluHisArgLeuGlyLysAspSerProSerAsnLysLeuLeuTyr 1800  
5341 TCTTGTCTCCAGCTCAGAGCACCGGCTGGGCAAGAGCTCGCCCTCCAAACAAGCTGCTGTAT 5400  
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5401 GCCAAGGACATCCCCAGCTACAGAAATTGGTGGAGAGGTATTACTCAGACATAGGGAAG 5460  
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5461 ATGCCGCCATCAGCGACCAAGACATGAACGCATACCTGGCTGAGCAGTCCCGGATGCAC 5520  
1841 MetAsnGluPheAsnThrMetSerAlaLeuSerGluIlePheSerTyrValGlyLysTyr 1860  
5521 ATGAATGAGTTCAACACCATGAGTGCATCTCAGAGATCTTCTCTATGTGGCAATAC 5580  
1861 SerGluGluLeuLeuGlyProLeuAspHisAspAspGlnCysGlyLysGlnLysLeuAla 1880  
5581 AGCAGGAGAGATCCTTGGACCTCTGGACCAAGATGAGTGGGAGAGCAAGAACTGGCC 5640  
1881 TyrLysLeuGluGlnValIleThrLeuMetSerLeuAspSer---AsnLys 1896  
5641 TACAACTAGAACAAAGTCATAACCTCTATGAGCTTAGACAGCTGAATATAA 5691

## RESULT 2

US-10-451-010-19  
; Sequence 19, Application US/10451010  
; Publication No. US20040082761A1  
; GENERAL INFORMATION:  
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APPLICANT: LAL, Preeti G.  
TITLE OF INVENTION: CELL ADHESION PROTEINS  
FILE REFERENCE: PF-0867 USN  
CURRENT APPLICATION NUMBER: US/10/451.010  
CURRENT FILING DATE: 2003-06-17  
PRIOR APPLICATION NUMBER: PCT/US01/49206  
PRIOR FILING DATE: 2001-12-18  
PRIOR APPLICATION NUMBER: US 60/256,542  
PRIOR FILING DATE: 2000-12-18  
PRIOR APPLICATION NUMBER: US 60/259,604  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: US 60/260,101  
PRIOR FILING DATE: 2001-01-05  
NUMBER OF SEQ ID NOS: 20  
SOFTWARE: PERL Program  
SEQ ID NO 19  
LENGTH: 6367  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc feature  
OTHER INFORMATION: Incyte ID No: 7156379CB1  
FEATURE:  
NAME/KEY: unsure  
LOCATION: 166  
OTHER INFORMATION: a, t, c, g, or other  
US-10-451-010-19  
Alignment Scores:  
Pred. No.: 0 Length: 6367  
Score: 9979.00 Matches: 1894  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 99.89% Indels: 0  
DB: 17 Gaps: 0  
US-09-964-956-13 (1-1896) x US-10-451-010-19 (1-6367)  
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Qy 21 GlySerSerThrLeuLeuThrArgGlnProAlaProLeuSerGlnLysGlnArgSerPhe 40  
Db 626 GGCTCCTCCACTTGGCTCACCCGGCAGCCGCCCTGTCTCCAGAACGACGCGGTCAATT 685  
Qy 41 ValThrPheArgGlyGluProAlaGluGlyPheAsnHisLeuValValAspGluArgThr 60  
Db 686 GTCACATTCGAGAGAGACCCCGCGAGGTTTCAATCACCTGGTGGTGGATGAGAGACA 745  
Qy 61 GlyHisIleTyrLeuGlyAlaValAsnArgIleTyrLysLeuSerSerAspLeuIleVal 80  
Db 746 GGACACATTTACTTGGGGGGCGCTCAATCGGATTTTACAGCTCTCCAGCGACCTCAAGGTC 805  
Qy 81 LeuValThrHisGluThrGlyProAspGluAspAsnProLysCysTyrProProArgIle 100

Db 806 TTGGTGACGCATGAGACAGAGCGCCGAGACCAACCCCAAGTGTATTACCCACCCCGCATC 865  
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Db 866 GTCCAGACCTCGAATGAGCCCTTGACACCAACCAATGTCACCAAGATGCTCTCTATA 925  
Qy 121 AspTyrLysGluAsnArgLeuIleAlaCysGlySerLeuTyrGlnGlyIleCysLysLeu 140  
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Qy 141 LeuArgLeuGluAspLeuPheLysLeuGlyGluProTyrHisLysLysGluHisTyrLeu 160  
Db 986 CTGAGGCTGGAGGACCTCTTCAAGCTGGGGAGCCTTATCATAGAAGAGACACATCTG 1045  
Qy 161 SerGlyValAsnGluSerGlySerValPheGlyValIleValSerTyrSerAsnLeuAsp 180  
Db 1046 TCAGGTGTCAACGAGAGCGGCTCAGTCTTTGGAGTGATCGTCTCTCAGCAACCTGGAT 1105  
Qy 181 AspLysLeuPheIleAlaThrAlaValAspGlyLysProGluTyrPheProThrIleSer 200  
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Db 1226 GAGTTCTGGCTCGCATGATTAAAGATCCCTTCGGACACCTTCACCATCATCTCTGACTTT 1285  
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Db 1286 GATATCTACTATGTCTATGGTTTTAGCAGTGGCAACTTTTGTCTACTTTTTGACCCCTCAA 1345  
Qy 261 ProGluMetValSerProGlySerThrThrLysGluGlnValTyrThrSerLysLeu 280  
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Db 1526 GTGCTTGGCAGGACCCCTTGGAGTCCATCCAGATGATGACCTGCTCTTACCGCTCTCTCC 1585  
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Db 1586 AAGGCCAGAACGGGAAATGAAATCCCTGGATGAGTGGCCCTGTGCATCTTTCATCTTG 1645  
Qy 361 LysGlnIleAsnAspArgIleLysGluArgLeuGlnSerCysTyrArgGlyGluGlyThr 380  
Db 1646 AAGCAGATAAATGACCGCATTAAGGAGCGGCTGCAGTCTTGTATCCGGGGCGAGGCGACG 1705  
Qy 381 LeuAspLeuAlaTrpLeuLysValLysAspIleProCysSerSerAlaLeuLeuThrIle 400  
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Db 1766 GAGCATAACTTCTGTGGCTGCACATGAATGTCTCCCTGGGAGTGTCCGACATGTGTGCT 1825  
Qy 421 GlyIleProValPheThrGluAspArgAspArgMetThrSerValIleAlaTyrValTyr 440  
Db 1826 GGAATTTCCGCTTTCACGGAGACAGGGACCCGATGACGCTGTATCCCATATGTCTAC 1885  
Qy 441 LysAsnHisSerLeuAlaPheValGlyThrLysSerGlyLysLeuLysLysIleArgVal 460  
Db 1886 AAGAACCACCTCTCTGGCTTTTGTGGGCACAAAGAGTGGCAAGCTGAAGAAGATCCGGGTG 1945

Qy	461	AspGlyProArgGlyAsnAlaLeuGlnTyrGluThrValGlnValValAspProGlyPro	480
Db	1946	GATGGACCCAGGGCAACGGCCCTCCAGTATGAGACGGTGCAGGTGGTGGACCCCGGCCCA	2005
Qy	481	ValLeuArgAspMetAlaPheSerLysAspHisclucInLeuTyrIleMetSerGluArg	500
Db	2006	GTCCTCCGGGATATGGCTCTTCCAAGGACACAGCAACTCTACATCATGTGACAGAGG	2065
Qy	501	GlnLeuThrArgValProValGluSerCysGlyGlnTyrGlnSerCysGlyGluCysLeu	520
Db	2066	CAGCTCACAGAGTCCCTGTGGAGTCTGTGGTCAGTATCAGAGCTGCGCGAGTGCCTT	2125
Qy	521	GlySerGlyAspProHisCysGlyTyrCysValLeuHisAsnThrCysThrArgLysGlu	540
Db	2126	GGCTCAGCGACCCCACTGGGTGGTGGTGTGTGCACAACTTGTCCAACCCGAAGGAG	2185
Qy	541	ArgCysGluArgSerLysGluProArgArgPheAlaSerGluMetLysGlnCysValArg	560
Db	2186	CGGTGTAGCGGTCCAAGGACCCCGCAGGTTTCCTCGGAGATGAAGCAGTGTGTCGG	2245
Qy	561	LeuThrValHisProAsnAsnIleSerValSerGlnTyrAsnValLeuLeuValLeuGlu	580
Db	2246	CTGACGGTCCATCCCAACATATCTCGTCTCTCAGTACAACTGCTGTGGTCTGGAG	2305
Qy	581	ThrTyrAsnValProGluLeuSerAlaGlyValAsnCysThrPheGluAspLeuSerGlu	600
Db	2306	ACGTACAATGTCCCGAGCTGTCACTGGCGTCAACTGCACCTTTGAGGACCTGTGCAG	2365
Qy	601	MetAspGlyLeuValValGlyAsnGlnIleGlnCysTyrSerProAlaAlaLysGluVal	620
Db	2366	ATGATGGGCTGGTGGTGGCAATCAGATCCAGTGCCTACCTCCCTGAGCCAAAGAGGTG	2425
Qy	621	ProArgIleIleThrGluAsnGlyAspHisValValGlnLeuGlnLeuLysSerLys	640
Db	2426	CCCCGGATCATCAGAGAAATGGGGACCCACCATGTGCTACAGCTTCAGTTCAAATCAAAG	2485
Qy	641	GluThrGlyMetThrPheAlaSerThrSerPheValPheTyrAsnCysSerValHisAsn	660
Db	2486	GAGACCGGCATGACCTTCGCCAGACACAGCTTGTCTTCTACAAATGGAGGTCACCAAT	2545
Qy	661	SerCysLeuSerCysValGluSerProTyrArgCysHisIleTyrCysLysTyrArgHisVal	680
Db	2546	TCGTGCCTGTCTCGTGGAGAGTCCATACCGCTGCCACTGGTGTAAATACCGGCATGTC	2605
Qy	681	CysThrHisAspProLysThrCysSerPheGlnGluArgValLysLeuProGluAsp	700
Db	2606	TGCACCCCATGACCCCAAGCTGTCTCTCCAGGAAGCCGAGTGAAGCTGCCCGAGGAC	2665
Qy	701	CysProGlnLeuLeuArgValAspLysIleLeuValProValGluValIleLysProIle	720
Db	2666	TGCCCCCAGCTGCTCGAGTGGACAAGATCTGTGTGCCGTGGAGGTGATCAAGCCTATC	2725
Qy	721	ThrLeuLysAlaLysAsnLeuProGlnProGlnSerGlyGlnArgGlyTyrGluCysIle	740
Db	2726	ACGCTGAAGGCCAAGAACTCCCCAGCCCCAGTCTGGCGAGCTGGCTACGAATGTCATC	2785
Qy	741	LeuAsnIleGlnGlySerGluGlnArgValProAlaLeuArgPheAsnSerSerVal	760
Db	2786	CTCAACATTCAGGGCAGCGAGCAGCGAGTGGCCGCCCTGCTGCTTCAACAGCTCCAGCGTA	2845
Qy	761	GlnCysGlnAsnThrSerTyrSerTyrGluGlyMetGluIleAsnAsnLeuProValGlu	780
Db	2846	CAGTCCCAAGAACACTCTTATCTCTATGAAGGATGGAGATCAACAACCTCCCGCTGGAG	2905
Qy	781	LeuThrValValTyrAsnGlyHisPheAsnIleAspAsnProAlaGlnAsnLysValHis	800
Db	2906	TTGACAGTCGTGGATGGGCACCTTCAACATTGACACCCAGCTCAGAAATAAGTTCCAC	2965
Qy	801	LeuTyrLysCysGlyAlaMetArgGluSerCysGlyLeuCysLeuLysAlaAspProAsp	820
Db	2966	CTCTACAAGTGGAGCCATCGTGAGAGCTGCGGGCTGTGCCTCAAGGGTGACCCAGAC	3025

Qy	821	PheAlaCysGlyTrpCysGlnGlyProGlyGlnCysThrLeuArgGlnHisCysProAla	840
Db	3026	TTCCGATGTGCTGGTGCACAGGCCCCAGGCCAGTGCACCTGCGCCAGCACTGCCCTGCC	3085
Qy	841	GlnGluSerGlnTrpLeuGluLeuSerGlyAlaLysSerIysCysThrAsnProArgIle	860
Db	3086	CAGGAGGACAGTGGCTGGAGCTGTCTGGTGCNAAAGCAAGTGCACAAACCCCGCAGTC	3145
Qy	861	ThrGluIleIleProValThrGlyProArgGluGlyGlyThrIysValThrIleArgGly	880
Db	3146	ACAGAGATAATCCGGTGCACAGGCCCCCGGAGAGGGGCACCAAGGTCACTATCCGAGGG	3205
Qy	881	GluAsnLeuGlyLeuGluPheArgAspIleAlaSerHisValIysValIlaGlyValGlu	900
Db	3206	GAGAACCTGGGCTGGGAATTTCCGCACATCGCTCCCATGTCAAGGTTCGTGCGTGGAG	3265
Qy	901	CysSerProLeuValAspGlyTyrrIleProAlaSerGlnIleValCysGluMetGlyGlu	920
Db	3266	TGCAGCCCTTTAGTGGATGGTTACATCCCTGCAGAACAGATCGTGTGTGAGATGGGGAG	3325
Qy	921	AlaIysProSerGlnHisAlaGlyPheValGluIleCysValAlaValCysArgProGlu	940
Db	3326	GCCAAAGCCAGCAGCATGCGAGCTTCGTGGAGATCTGGCTGGCTGTGTGCTGGCCTGAA	3385
Qy	941	PheMetAlaArgSerSerGlnLeuTyrrTyrrPheMetThrLeuThrLeuSerAspLeuLys	960
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Qy	961	ProSerArgGlyProMetSerGlyGlyThrGlnValThrIleThrGlyThrAsnLeuAsn	980
Db	3446	CCCAGCCGGGGGCCCATGTCCGAGGAGACCACAAAGTGACCATCAGAGCACCAACCTGAA	3505
Qy	981	AlaGlySerAsnValValMetPheGlyLysGlnProCysLeuPheHisArgArgSer	1000
Db	3506	GCCGGAGCAACGTGGTGGTGATGTTTGGAAAGCAGCCCTGTCTCTCCACAGCGATCT	3565
Qy	1001	ProSerTyrrIleValCysAsnThrThrSerSerAspGluValLeuGluMetLysValSer	1020
Db	3566	CCATCTCTACATTTGCTCCAAACACACATCTCTCAGATGAGGTGTTAGAGATGAAAGTCTGC	3625
Qy	1021	ValGlnValAspArgAlaLysIleHisGlnAspLeuValPheGlnTyrrValGluAspPro	1040
Db	3626	GTGCAGGTGGACAGGGCCAAAGTCCACAGACCTGGTCTTTCAGTATGTGGAGACCCC	3685
Qy	1041	ThrIleValArgIleGluProGluTyrPsrIleValSerGlyAsnThrProfileAlaVal	1060
Db	3686	ACCATCTGCGGATTGAGCCAGAAATGAGCATTTGTCAGTGGAAACACACCATCGCCGTA	3745
Qy	1061	TrpGlyThrHisLeuAspLeuIleGlnAsnProGlnIleArgAlaLysHisGlyGlyLys	1080
Db	3746	TGGGGGACCACTGGACCTCATACAGACCCCGAGATCCGTGCCAAGCATGGAGGAAG	3805
Qy	1081	GluHisIleAsnIleCysGluValLeuAsnAlaThrGluMetThrCysGlnAlaProAla	1100
Db	3806	GAGCACATCAATATCTGTGAGGTTCIGAACGCTACTGAGATGACCTGTCTAGGCGCCGCC	3865
Qy	1101	LeuAlaLeuGlyProAspHisGlnSerAspLeuThrGluArgProGluGluPheGlyPhe	1120
Db	3866	CTCGCTCTGGGTCTGACCACTCAGTACAGCTGCACGAGAGGCCCGAGGAGTTTGGGTTC	3925
Qy	1121	IleLeuAspAsnValGlnSerLeuLeuIleLeuAsnLysThrAsnPheThrTyrrPro	1140
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Qy	1141	AsnProValPheGluAlaPheGlyProSerGlyIleLeuGluLeuLysProGlyThrPro	1160
Db	3986	AAACCGGTGTTTGAAGCCCTTTGGTCCCTCAGGAATCTTGGAGCTCAAGAGCTGGCAGGCC	4045
Qy	1161	IleIleLeuLysGlyLysAsnLeuIleProProValalAGlyGlyAsnValLysLeuAsn	1180
Db	4046	ATCATCTTAAAGGCAAGAACCTGATCCCGCTGTGGCTGGGGCAACGTGAGACTGAAC	4105
Qy	1181	TyrThrValLeuValGlyGluLysProCysThrValThrValSerAspValGlnLeuLeu	1200

Db 4106 TACACTGTGCTGGTGGGAGAACCGTGCACCGTGACCGTGTCAGATGCTCCAGCTGCTC 4165  
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QY 1281 LeuGluSerArgValAlaLeuGluCysLysGluAlaPheAlaGluLeuGlnThrAspIle 1300  
Db 4406 CTGAGTCCCGTGGTGGCGCCCTGAGTGCAGAGGAGCCCTTTGCCGAGTGCAGACGACATC 4465  
QY 1301 HisGluLeuThrSerAspLeuAspGlyAlaGlyIleProPheLeuAspTyrArgThrTyr 1320  
Db 4466 CATGAGCTGACCACTGACCTGATGGATGGAGCGGGATTCGGTCTCTGGACTATAGACTTAC 4525  
QY 1321 ThrMetArgValLeuPheProGlyIleGluAspHisProValLeuAspLeuGluVal 1340  
Db 4526 ACCATCGGGTGTGTTCCTCCAGCAATTGAAGACACCCCTGTCTCCGGGACCTTGAGTGC 4585  
QY 1341 ProGlyTyrArgGlnGluArgValGluLysGlyLeuLysPheAlaGlnLeuIleAsn 1360  
Db 4586 CCGGGTACCGGACAGAGCGTGTGGAGAAAGCGCTGAAGCTCTTCCCGGAGCTCATCAAC 4645  
QY 1361 AsnLysValPheLeuLeuSerPheIleArgThrLeuGluSerGlnArgSerPheSerMet 1380  
Db 4646 AACAAAGTGTCTGCTGCTTCATCCGACAGCTTGAGTCCCGAGGTAGTCTCTCCATG 4705  
QY 1381 ArgAspArgGlyAsnValAlaSerLeuIleMetThrValLeuGlnSerLysLeuGluTyr 1400  
Db 4706 CGGACCGTGGCAACGTGGCGCTCACTCATCATACCGTGTGCAGAGCAAGCTGGAGTAC 4765  
QY 1401 AlaThrAspValLeuLysGlnLeuLeuAlaAspLeuIleAspLysAsnLeuGluSerLys 1420  
Db 4766 GCCACTGATGTGTGAAGCAGCTGCTGGCGACCTCATTGACAAGAACCTGGAGAGCAAG 4825  
QY 1421 AsnHisProLysLeuLeuLeuArgArgThrGluSerValAlaGluLysMetLeuThrAsn 1440  
Db 4826 AACACCCCTAAGCTGTCTCAGGAGACTGAGTCACTAGTGGCTGAGAGATGCTGCACCAAT 4885  
QY 1441 TrpPheThrPheLeuLeuTyrLysPheLeuLysGluCysAlaGlyGluProLeuPheSer 1460  
Db 4886 TGGTTTACTTTCCTCTACAAAGTTCCTCAAGAGTGTCTGGGAGCCCTCTTCTCC 4945  
QY 1461 LeuPheCysAlaIleLysGlnMetGluLysGlyProIleAspAlaIleThrGlyGlu 1480  
Db 4946 CTGTCTGTGCCATCAAGCAGCAGATGGAGAGGGGCCCATTTGACGCCATCAGCGCGAG 5005  
QY 1481 AlaArgTyrSerLeuSerGluAspLysLeuIleArgGlnIleAspTyrLysThrLeu 1500  
Db 5006 GCCCGCTACTCTTGGCAGGACAGACTCATCCGACAGCAGATTGACTACAAAACCCCTG 5065  
QY 1501 ValLeuSerCysValSerProAspAsnAlaAsnSerProGluValProValIysIleLeu 1520  
Db 5066 GTCTGTGAGCTGTGTGAGCCAGCAATGCCAACAGCCCGAGGTCCCGATTAAGATCTCTC 5125  
QY 1521 AsnCysAspThrIleThrGlnValLysGluLysIleLeuAspAlaIlePheLysAsnVal 1540  
Db 5126 AACTGTGACACCATCACTCAGGTCAAGGAGAAATCTGTGATGCCATCTCAAGATGTG 5185  
QY 1541 ProCysSerHisArgProLysAlaAlaAspMetAspLeuThrArgGlnGlySerGly 1560

Db 5186 CTTTGTCTCCACCGCGCCAAAGCTGCAGATATGATCTGGAGTGGCGCAAGGAAGTGGG 5245  
QY 1561 AlaArgMetIleLeuGlnAspGluAspIleThrThrLysIleGluAsnAspTyrLysArg 1580  
Db 5246 CCAAGGATGATCTTTGCAAGGATGAAGACATCACCAAGGATTTGAGATGATTGAAGCGCA 5305  
QY 1581 LeuAsnThrLeuAlaHisTyrGlnValProAspGlySerValValAlaLeuValSerLys 1600  
Db 5306 CTGAACACACTGGCCCACTACCAAGTCCAGATGTTTCCGTGGTGGCATTAGTGTCCAAG 5365  
QY 1601 GlnValThrAlaTyrAsnAlaValAsnAsnSerThrValSerArgThrSerAlaSerLys 1620  
Db 5366 CAGGTGACAGCTATAACGCAAGTGAACACTCCACCTCTCCAGGACTCTCAGCAAGTAAA 5425  
QY 1621 TyrGluAsnMetIleArgTyrThrGlySerProAspSerLeuArgSerArgThrProMet 1640  
Db 5426 TATGAAACATGATCCCGTACACGCGCAGCCCGCAGACCTCCCTCAGCACCTATG 5485  
QY 1641 IleThrProAspLeuGluSerGlyValLysMetTrpHisLeuValLysAsnHisGluHis 1660  
Db 5486 ATCACTCTGACCTGGAGAGTGGAGTCAAGATGTGGCACTTAGTGAAGAACCCAGACAC 5545  
QY 1661 GlyAspGlnLysGluLysArgGlySerLysMetValSerGluIleTyrLeuThrArg 1680  
Db 5546 GGAGACCAAGAGAGGGGACCGGGGAGCAGATGTGTCTGAATCTACCTGACCCGA 5605  
QY 1681 LeuLeuAlaThrLysGlyThrLeuGlnLysPheValAspAspLeuPheGluThrIlePhe 1700  
Db 5606 CTCTGTGGCCACTAAGGCGACACTGCAGAAAGTTTGTGATGACCTCTTTGACCATCTTC 5665  
QY 1701 SerThrAlaHisArgGlySerAlaLeuProLeuAlaIleLysTyrMetPheAspPheLeu 1720  
Db 5666 AGCAGCGCACACCTGGCTGTGCCCTGTGCCCATCAAGTACATGTTTGACTTCTGT 5725  
QY 1721 AspGluGlnAlaAspLysHisGlyIleHisAspProHisValArgHisThrTrpLysSer 1740  
Db 5726 GATGAGCAGGCTGATAAACATGGCATTCATGACCGCACGTCGCCCATACCTGGAAGAGC 5785  
QY 1741 AsnCysLeuProLeuArgPheTrpValAsnMetIleLysAsnProGlnPheValPheAsp 1760  
Db 5786 AATTGCTTCCCTGAGGTTTTGGGTCAACATGATCAAGAACCCGAGTTTGTGTGAC 5845  
QY 1761 IleHisLysAsnSerIleThrAspAlaCysLeuSerValValAlaGlnThrPheMetAsp 1780  
Db 5846 ATCCATAGAACAGCATCACAGACGCTGCTCTCTGTGTGGTGGCTCAGACCTTCATGGAC 5905  
QY 1781 SerCysSerThrSerGluHisArgLeuGlyLysAspSerProSerAsnLysLeuLeuTyr 1800  
Db 5906 TCTTGTCTCCAGTCAGAGCACCGCTGGCAAGACTCGCCCTCCAAACAGCTCTGTAT 5965  
QY 1801 AlaLysAspIleProSerTyrLysAsnTrpValGluArgTyrTyrSerAspIleGlyLys 1820  
Db 5966 GCCAAGGACATCCCGAGCTACAAGATTGGGTGGAGAGGTATTACTCAGACATAGGGAAG 6025  
QY 1821 MetProAlaIleSerAspGlnAspMetAsnAlaTyrLeuAlaGluGlnSerArgMetHis 1840  
Db 6026 ATGCCAGCCATCAGCGACCAAGCATGAACGCATACCTGGCTGAGCATCCCGATGGAC 6085  
QY 1841 MetAsnGluPheAsnThrMetSerAlaLeuSerGluIlePheSerTyrValGlyLysTyr 1860  
Db 6086 ATGAATGAGTTCAACCATGAGTGCATCTCTCAGATCTTCTCTATGTGGCBAATAC 6145  
QY 1861 SerGluGluIleLeuGlyProLeuAspHisAspAspGlnCysGlyLysGlnLysLeuAla 1880  
Db 6146 AGCGAGGAGATCTTGGACCTCTGGACCTCGACACGACGACGAGTGTGGGAAGCAGAACTGGCC 6205  
QY 1881 TyrLysLeuGluGlnValIleThrLeuMetSerLeuAspSer 1894  
Db 6206 TACAACTAGAACCAAGTCAATAACCTCTATGAGCTTAGACAGC 6247

RESULT 3

US-10-175-523-95

; Sequence 95, Application US/10175523



Publication No. US20030096264A1  
 GENERAL INFORMATION:  
 APPLICANT: Brockman, Jeffrey  
 APPLICANT: Evans, David  
 APPLICANT: Hook, Derek  
 APPLICANT: Klimczak, Leszek  
 APPLICANT: Lueng, Pascal  
 APPLICANT: Palfreyman, Michael  
 APPLICANT: Rajan, Priithi  
 TITLE OF INVENTION: MULTI-PARAMETER HIGH THROUGHPUT SCREENING ASSAYS (MPHTS)  
 FILE REFERENCE: 3235/LU795-US3  
 CURRENT APPLICATION NUMBER: US 10/175,523  
 CURRENT FILING DATE: 2002-06-18  
 PRIOR APPLICATION NUMBER: US 60/299,151  
 PRIOR FILING DATE: 2001-06-18  
 PRIOR APPLICATION NUMBER: US 60/317,828  
 PRIOR FILING DATE: 2001-09-07  
 PRIOR APPLICATION NUMBER: US 60/325,150  
 PRIOR FILING DATE: 2001-09-25  
 PRIOR APPLICATION NUMBER: US 60/333,047  
 PRIOR FILING DATE: 2001-11-14  
 PRIOR APPLICATION NUMBER: US 60/349,936  
 PRIOR FILING DATE: 2002-01-18  
 PRIOR APPLICATION NUMBER: US 60/361,834  
 PRIOR FILING DATE: 2002-03-04  
 NUMBER OF SEQ ID NOS: 197  
 SOFTWARE: PatentIn version 3.1  
 SEQ ID NO 95  
 LENGTH: 6730  
 TYPE: DNA  
 ORGANISM: Mus musculus  
 FEATURE:  
 NAME/KEY: misc feature  
 LOCATION: (1)..(6730)  
 OTHER INFORMATION: where n may be a or g or c or t/u, unknown, or other

US-10-175-523-95

Alignment Scores:  
 Pred. No.: 0 Length: 6730  
 Score: 6765.00 Matches: 1268  
 Percent Similarity: 80.24% Conservative: 239  
 Best Local Similarity: 67.52% Mismatches: 357  
 Query Match: 67.72% Indels: 14  
 DB: 15 Gaps: 8  
 US-09-964-956-13 (1-1896) x US-10-175-523-95 (1-6730)

QY 25 LeuLeuThrArgGlnProAlaProLeuSerGlnLysGlnArgSerPheValThrPheArg 44  
 DB 628 CTGCTAGCTCGTGGACACACAGGTATGCTCAG-----TACAGCACTTCCAC 675  
 QY 45 GlyGluProAlaGlu---GlyPheAsnHisLeuValValAspGluArgThrGlyHisIle 63  
 DB 676 TCTGAGATCGTGACTGGACTTTCAACCATTTGACTGTACACCGAAGAACAGGGGCTGTG 735  
 QY 64 TyrLeuGlyAlaValAsnArgIleTyrLysLeuSerSerAspLeuLysValLeuValThr 83  
 DB 736 TATGTGGGGCTATCAATCGTGTCTACAAAGTTGACTGGCAACCTCACCATCCAGGTGGCT 795  
 QY 84 HisGluThrGlyProAspGluAspAsnProLysCysTyrProArgIleValGlnThr 103  
 DB 796 CACAGACAGGCGCAGAGAGACACACAGGCTTCTACCCACCCCTCATTTGTACAGCCC 855  
 QY 104 CysAsnGluProLeuThrThrThrAsnAsnValAsnLysMetLeuLeuLeuAspTyrLys 123  
 DB 856 TGCAGTGAAGTCTTACACTCAACCAACATGTCAACAACTACTGATCATTTGACTACTCT 915  
 QY 124 GluAsnArgLeuLeuAlaCysGlySerLeuTyrGlnGlyIleCysLeuLeuArgGlu 143  
 DB 916 GAGATCGCTCTGCTGCTGCGGAGAGCTCTACAGGGGTGTTCAGCTCTCGGACTA 975  
 QY 144 GluAspLeuPheLysLeuGlyGluProTyrHisLysLysGluHisTyrLeuSerGlyVal 163

DB 976 GATGACCTCTTCATCCTGGTGGAGCCATCCACAGAGAAACACTACTTGTCCAGTGT 1035  
 QY 164 AsnGluSerCysValPheGlyValIleValSerTyrSerAsnLeuAspLeuLeu 183  
 DB 1036 AATAAGACAGGACCATGATGTGTGATGTGGCTCTGAGGGGGAAGATGCAAGCTT 1095  
 QY 184 PheIleAlaThrAlaValAspGlyLysProGluTyrPheProThrIleSerSerArgLys 203  
 DB 1096 TTTATCGGCACTCTGTGATGCAAGCAGGATTAATCTCCCTACTCTGTCCAGCCGCAAG 1155  
 QY 204 LeuThrLysAsnSerGluAlaAspGlyMetPheAlaTyrValPheHisAspGluPheVal 223  
 DB 1156 CTGCGCGTGACCTGAGCTTTCAGCAATGCTGGACTATGAGCTCCACAGTGAATTTGTC 1215  
 QY 224 AlaserMetIleLysIleProSerAspThrPheThrIleIleProAspPheAspIleTyr 243  
 DB 1216 TCCTCCTCATCAAGATTCCTCTGACACCTAGCCCTGGTCTCTCACTTCGACATCTTC 1275  
 QY 244 TyrValTyrGlyPheSerSerGlyAsnPheValTyrPheLeuThrLeuGlnProGluMet 263  
 DB 1276 TACATCTATGGCTTTCGAGTGGGGTGTGTCTACTTCTCACTGTCCAGCCAGAG--- 1332  
 QY 264 ValSerProProGly-----SerThrThrLysGluGlnValTyrThrSerLysLeu 280  
 DB 1333 ---ACCCCTGACGGCATGCCATCAATTCAGCTGGAGACCTCTTCTATACCTCAAGAA 1389  
 QY 281 ValArgLeuCysLysGluAspThrAlaPheAsnSerTyrValGluValProIleGlyCys 300  
 DB 1390 GTGCGTCTCTGCAAGGATGACCCCAAGTTCCTCTATGTGTCTGCTGCTTGTGCTGC 1449  
 QY 301 GluArgSerGlyValGluTyrArgLeuLeuGlnAlaAlaTyrLeuSerLysAlaGlyAla 320  
 DB 1450 ACAGTGTGGGTGGATATGCTTCTGAGGAGCTTACCTTGCAGGACGAGGAGAA 1509  
 QY 321 ValLeuGlyArgThrLeuGlyValHisProAspAspLeuPheThrValPheSer 340  
 DB 1510 GCTTAGCTCAGGCTTCAACATCAGCAGCAGCAAGATGTCTGTTCCTCATCTTTTCC 1569  
 QY 341 LysGlyGlnLysArgLysMetLysSerLeuAspGluSerAlaLeuCysIlePheIleLeu 360  
 DB 1570 AAGGGCAGAGCAGTACACACCCCTGATGATCTGCTCTGCTGCTTCCCAATC 1629  
 QY 361 LysGlnIleAsnAspArgIleLysGluArgLeuGlnSerCysTyrArgGlyGluGlyThr 380  
 DB 1630 CGGGCCATCAACTTGCAATCAAGGAGCGTTCAGTCTCTGCTCCTCACCAGGAGGCAAC 1689  
 QY 381 LeuAspLeuAlaTrpLeuLysValLysAspIleProCysSerSerAlaLeuLeuThrIle 400  
 DB 1690 TTGAGCTCAACTGGCTGTGGGAAAGGATGTGAGTGACCAAGGCGCTGTGCCAATC 1749  
 QY 401 AspAspAsnPheCysGlyLeuAspMetAsnAlaProLeuGlyValSerAspMetValArg 420  
 DB 1750 GATGATAACTTCTGCGGCTGGACATCAACAGCCTCTGGAGGCTCCACTCTGTGGAG 1809  
 QY 421 GlyIleProValPheThrGluAspArgAspArgMetThrSerValIleAlaTyrValTyr 440  
 DB 1810 GGACTGACCTGTATACCAACAGCAGGACCGGCTGACCTGTGGCTCTCTATGTTTAC 1869  
 QY 441 LysAsnHisSerLeuAlaPheValGlyThrLysSerGlyLysLeuLysLysIleArgVal 460  
 DB 1870 AATGGCTACAGTGTGTTTGTGGGAGCTAAGAGTGGCAGCTGAAGAGATTCAGCT 1929  
 QY 461 AspGlyProArgGlyAsnAlaLeuGlnTyrGluThrValGlnValVal---AspProGly 479  
 DB 1930 GATGGTCCCCCATCGTGGGGTCCAGTATGAGATGTCTGTGTTCAAAGATGGGAGC 1989  
 QY 480 ProValLeuArgAspMetAlaPheSerLysAspHisGluGlnLeuTyrIleMetSerGlu 499  
 DB 1990 CCAATCTCGGAGCATGGCTTTCATCAATCAGCTATACCTATATGTCATGTCGTGAG 2049  
 QY 500 ArgGlnLeuThrArgValProValGluSerCysGlyGlnTyrGlnSerCysGlyGluCys 519  
 DB 2050 AGACAGTCCACAGGCTCCTGTGTAATCATGTGAACAGTATACCACTTGTGGAGAGTGT 2109



QY 520 LeuGlySerGlyAspProHisCysGlyTyrCysValLeuHisAsnThrCysThrArgLys 539  
DB 2110 CTAAGCTCAGGGAGTCTCACTGTGGCTGGTGGCCCTGCACAACTGCTGCCGAGA 2169  
QY 540 GluArgCysGluArgSerLysGluProArgArgPheAlaSerGluMetLysGlnCysVal 559  
DB 2170 GACAAATGCCAACGGGCTGGGAAGCAAAATCGATTTCCTCCAGTATCAACCCAGTGCATG 2229  
QY 560 ArgLeuThrValHisProAsnAsnIleSerValSerGlnTyrAsnValLeuValLeu 579  
DB 2230 AGCCTTGAGGTACACCCCAACAGCATCTCTGTGCATCACAGCCGGCTGCTCAGCCTG 2289  
QY 580 GluThrTyrAsnValProGluLeuSerAlaGlyValAsnCysThrPheGluAspLeuSer 599  
DB 2290 GTTGTGAATGATGCTCCCAACTCTCTGAAGGTATTCCTGTGCTTTGGGAATCTGACT 2349  
QY 600 GluMetAspGlyLeuValValGlyAsnGlnIleGlnCysTyrSerProAlaAlaLysGlu 619  
DB 2350 GAGGTGAGGACAGGTATCTGGAGGTCAAGTCACTGCATCTCACCTGACCCAGGAT 2409  
QY 620 ValProArgIleIleThrGluAsnGlyAspHisValValGlnLeuGlnLeuLysSer 639  
DB 2410 GTCCCT--GTCATCCCTCTGGATCAAGACTGGTTCGCTAGAGCTGCAGCTGAGATCC 2466  
QY 640 LysGluThrGlyMetThrPheAlaSerThrSerPheValPheTyrAsnCysSerValHis 659  
DB 2467 AAGAGACAGGAAGATCTTTGTGACACCAAGTTCATGTTCTATTAAGTTCATGAGTCCAC 2526  
QY 660 AsnSerCysLeuSerCysValGluSerProTyrArgCysHisTyrCysLysTyrArgHis 679  
DB 2527 CAACGTGCTGTCTGTGTAAACAGCGCCTTCGCTGCCATTCGTCGCAAGTACCGTAAC 2586  
QY 680 ValCysThrHisAspProLysThrCysSerPheGlnGluGlyArgValLysLeuProGlu 699  
DB 2587 CTCGTGCACATGATGACCCCACTACCTGTTCCTTCCAGGAAGCAGGATCAATGTTTCAGAG 2646  
QY 700 AspCysProGlnLeuArgValAspLysIleLeuValProValGluValIleLysPro 719  
DB 2647 GACTGTCCCAAGCTCGTCCCAACGAGGAGATTCGTATCCAGCTGGGGAGTAACACCA 2706  
QY 720 IleThrLeuLysAlaLysAsnLeuProGlnSerGlyGlnArgGlyTyrGluCys 739  
DB 2707 ATCACCTTAAAGGCCGGAACCTCCCGACGCGCCAGCTCGGCCAGCAGGCTACGAGTGT 2766  
QY 740 IleLeuAsnIleGlnGlySerGluGlnArgValProAlaLeuArgPheAsnSerSerSer 759  
DB 2767 GTGCTCAGANTCAAGGGCTGTCCACGGGTCTCTGCCCTGCGTTTCAACAGTTCAGT 2826  
QY 760 ValGlnCysGlnAsnThrSerTyrSerTyrGluGlyMetGluIleAsnAsnLeuProVal 779  
DB 2827 GTGCAGTGCCTCAAAACAGCTCTACCATGATGCGGATGGACATCAGCAACCTAGCAGTG 2886  
QY 780 GluLeuThrValValTyrAsnGlyHisPheAsnIleAspAsnProAlaGlnAsnLysVal 799  
DB 2887 GACTTTGCTGTAGTATGAATGGCAACTTCATTATGACAACTTCAGGACCTGAAAGTA 2946  
QY 800 HisLeuTyrLysCysGlyAlaMetArgGluSerCysGlyLeuCysLeuLysAlaAspPro 819  
DB 2947 CATCTACAAAGTGTGACGCCAGCGGGAAGCTGTGCTCTCTGCCCTCAAGGCTGACCA 3006  
QY 820 AspPheAlaCysGlyTyrCysGlnGlyProGlyGlnCysThrLeuArgGlnHisCysPro 839  
DB 3007 AAGTTTCAGTGTGGTGGTGGTGGGAGGATGATCCCTCCACAGCACTGCCCC 3066  
QY 840 AlaGlnGluSerGlnTyrLeuLeuLeuSerGlyAlaLysSerLysCysThrAsnProArg 859  
DB 3067 AGCATCTTAGCCCCCTGCTGACTGGTCCAGCCACAATGCAAGTGTTCACACCCCAA 3126  
QY 860 IleThrGluIleIleProValThrGlyProArgGluGlyGlyThrLysValThrIleArg 879  
DB 3127 ATCAGAGATTTTGACAGTATACGACCACCTGAAGAGGAGGACTCGTGTGACCATCAT 3186

QY 880 GlyGluAsnLeuGlyLeuGluPheArgAspIleAlaSerHisValLysValAlaGlyVal 899  
DB 3187 GCGGTGAACCTGGCTGGACTTCTCGAGATTGCTCACCATTGTCAGGTGGCTGGAGTG 3246  
QY 900 GluCysSerProLeuValAspGlyTyrIleProAlaGluGlnIleValCysGluMetGly 919  
DB 3247 CCTGTGACCATCTCCAGGGGAATACATCATCGCTGAGCAGATCGTCTGTGAGATGGC 3306  
QY 920 GluAlaLysProSerGlnHisAlaGlyPheValGluIleCysValAlaValCysArgPro 939  
DB 3307 CATGCCGTTATAGGTACACATCTGGCTGTGGCTGTGCATTTGGGAATGCAAGCA 3366  
QY 940 GluPheMetAlaArgSerSerGlnLeuTyrTyrPheMetThrLeuThrLeuSerAspLeu 959  
DB 3367 GAGTTCATGACCAAGTCCACAGCAGTATCTTTTGTGAATCTCTGTGTGTGCATCTC 3426  
QY 960 LysProSerArgGlyProMetSerGlyGlyThrGlnValThrIleThrGlyThrAsnLeu 979  
DB 3427 AGCCCGATCCGGGACACAGTCAGAGGTACCATGGTGACCATCACAGGCCATTACCTT 3486  
QY 980 AsnAlaGlySerAsnValValMetPheGlyLysGlnProCysLeuPheHisArgArg 999  
DB 3487 GGTGTGGGAGCAGTGTGCGACTGTACCTGGGCAATCAGACTGTGAATTTCTATGGGAG 3546  
QY 1000 SerProSerTyrIleValCys--AsnThrThrSerSerAspGluValLeuGluMetLys 1018  
DB 3547 TCAATGAATGAGATTGTATGTGTTTCACCCCCATCATCAATGGACTAGGACCCCT 3606  
QY 1019 ValSerValGlnValAspArgAlaLysIleHisGlnAspLeuValPheGlnTyrValGlu 1038  
DB 3607 GTCTCCGTGAGTGTGACAGAGCCGGGTGGATAGCAGTCTGCAGTTCGAGTATATAGT 3666  
QY 1039 AspProThrIleValArgIleGluProGluTyrTyrSerIleValSerGlyAsnThrProIle 1058  
DB 3667 GACCCACGGGTCAACAGTATTGAGCCAGTGAGTATCAGTAGTGGGACACACCCCTA 3726  
QY 1059 AlaValTyrGlyThrHisLeuAspLeuIleGlnAsnProGlnIleArgAlaLysHisGly 1078  
DB 3727 ACCATCACAGGCTTCAACTGGATTGATTCATTCAGGAGCCAGGCTCCGAGTCAATTAAT 3786  
QY 1079 GlyLysGluHisIleAsnIleCysGluValLeuAsnAlaThrGluMetThrCysGlnAla 1098  
DB 3787 GGCAAGAAATCTGTCAATGTATGCACAGTGGTAACAACACCCCTCACCTGTCTGGCA 3846  
QY 1099 ProAlaLeuAlaLeuGlyProAspHisGlnSerAspLeuThrGluArgProGluPhe 1118  
DB 3847 CCTCTCTGACCCAGTGACTACCGCCAGGTCTGGACACTGTGGAACGGCCAGATGATTT 3906  
QY 1119 GlyPheIleLeuAspAsnValGlnSerLeuLeuIleLeuAsnLysThrAsnPheThrTyr 1138  
DB 3907 GGATTTCTCTTTAACAATGTTCAATCCTTACTCATCTATAACGACACCAAGTTCTATCTAC 3966  
QY 1139 TyrProAsnProValPheGluAlaPheGlyProSerGlyIleLeuGluLysProGly 1158  
DB 3967 TACCCCAACCAACGTTTGAACCTGCTCAGCCCCACTGGAATCTTGATCAGAAGCCAGC 4026  
QY 1159 ThrProIleIleLeuLysGlyLysAsnLeuIleProProValAlaGlyGlyAsnValLys 1178  
DB 4027 TCACCCATCATCTGAAGGGCAAAATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 4083  
QY 1179 LeuAsnTyrThrValLeuValGlyGluLysProCysThrValThrValSerAspValGln 1198  
DB 4084 CTCACCTACAGTAATGATGGAGACACCTTGTACAGTCACTGTGTCTGAGACACAG 4143  
QY 1199 LeuLeuCysGluSerProAsnLeuIleGlyArgHisLysValMetAlaArgValGlyGly 1218  
DB 4144 CTGCTTTGTGAACCTCCCAACCTCAGGGCAGCAAGGTCTATGCTTCACTGGGCGGG 4203  
QY 1219 MetGluTyrSerProGlyMetValTyrIleAlaProAspSerProLeuSerLeuProAla 1238  
DB 4204 ATGGTGTCTCTCACTGGCTCCCGTGGAGCTATCTCGACAGCCTGTGTGACCTTCAGCC 4263  
QY 1239 IleValSerIleAlaValAlaGlyLeuLeuIleIlePheIleValAlaValLeuIle 1258

Db 4264 ATCATCAGCATCGAGCTGGTGAAGCCTCTCTTTATCATCGTCAATCATTTGCTCTCATC 4323  
Qy 1259 AlaTyrLysArgLysSerArgLysSerAspLeuThrLeuLysArgLeuGlnMetVal 1278  
Db 4324 GCTTACAGCGCAAGTCTAGGAAATGACCTCACTCAAGCGCTCCAAATGCAAAATG 4383  
Qy 1279 AspAsnLeuGluSerArgValAlaLeuGluCysLysGluAlaPheAlaGluLeuGlnThr 1298  
Db 4384 GACAACTGGAGTCCAGGGTGGCACTGGAGTGCAGGAAGCTTTTTCGGAGCTTCAGACA 4443  
Qy 1299 AspIleHisGluLeuThrSerAspLeuAspGlyAlaGlyIleProPheLeuAspTyrArg 1318  
Db 4444 GACATCAATGAGCTAACCAAGTACCTGGATCGATCGGAATCCCTTACCTGAGCTACCGT 4503  
Qy 1319 ThrTyrThrMetArgValLeuPheProGlyIleGluAspHisProValLeuArgAspLeu 1338  
Db 4504 ACCTATGCCATGAGAGTCTGTCTCCAGGCATTTGAGACCCCTGTTCTCGGGAATG 4563  
Qy 1339 GluValProGlyTyrArgGlnGluArgValGluLysGlyLeuLysLeuPheAlaGlnLeu 1358  
Db 4564 GAGGTACAGGGAATGGACAGCAGCAGCGTGGAGAAAGCCCTGAAACTCTTCGCCAGCTT 4623  
Qy 1359 IleAsnAsnLysValPheLeuLeuSerPheIleArgThrLeuGluSerGlnArgSerPhe 1378  
Db 4624 ATCAACAACAGAGTGTCTTGCTGACCTTCATCCGTACACTGGAACTACAGCGCAGCTTC 4683  
Qy 1379 SerMetArgAspArgGlyAsnValAlaSerLeuIleMetThrValLeuGlnSerLysLeu 1398  
Db 4684 TCCATCGAGACCGTGGGAACCTGGCTCTCTCATCATGACAGCGCTTCAGGGTCCGCTA 4743  
Qy 1399 GluTyrAlaThrAspValLeuLysGlnLeuLeuAlaAspLeuIleAspLysAsnLeuGlu 1418  
Db 4744 GAATATGCCATGATGTCTCAAGCAGCTGCTCTCTGACCTCATTTGACAAAGACCTGGAG 4803  
Qy 1419 SerLysAsnHisProLysLeuLeuLeuArgThrGluSerValAlaGluLysMetLeu 1438  
Db 4804 AACAGAAGACCCCAAGCTGCTCTCGCAGCAGTGTGTGCGCGAGAGATGCTG 4863  
Qy 1439 ThrAsnTyrPheThrPheLeuLeuTyrLysPheLeuLysGluCysAlaGlyLysProLeu 1458  
Db 4864 ACTAAGTGTGTGCTTTCTTACACAAGTTCCTGAAGAGTGTGCTGGGGAACCACTC 4923  
Qy 1459 PheSerLeuPheCysAlaIleLysGlnMetGluLysGlyProIleAspAlaIleThr 1478  
Db 4924 TTCATGCTATCTGTGCAATCAAGCAGCAGATGGAAAGGCCCTTACGCTATTACT 4983  
Qy 1479 GlyGluAlaArgTyrSerLeuSerGluAspLysLeuIleArgGlnGlnIleAspTyrLys 1498  
Db 4984 GGTGAGGCCGATACTCCCTGAGTGAAGACAAGCTCATCCGGCAGCAGATCGAGTATAG 5043  
Qy 1499 ThrLeuValLeuSerCysValSerProAspAsnAlaAsnSerProGluValProValLys 1518  
Db 5044 ACTCTGATCCTGACCTGTGTCAACCTGACATGAGAACAGCCGAGATCCAGTGA 5103  
Qy 1519 IleLeuAsnCysAspThrIleThrGlnValLysGluLysIleLeuAspAlaIlePheLys 1538  
Db 5104 GTACTAAACTGTGACACCATCACTCAAGTCAAGGAGAGATCCTCGATGCCGTATATAAG 5163  
Qy 1539 AsnValProCysSerHisArgProLysAlaAlaAspMetAspLeuGluTyrArgGlnGly 1558  
Db 5164 AATGTCCTTACTCCAGCGGCCCAAGGCTGTGGATCGATGATCGAGTGGCGCCAAAGC 5223  
Qy 1559 SerGlyAlaArgMetIleLeuGlnAspGluAspIleThrThrLysIleGluAsnAspTyr 1578  
Db 5224 CGGATTCGCCAGTGTGTTCAGGACGAGACATACCAACCAAAATAGAGGGTGAAGT 5283  
Qy 1579 LysArgLeuAsnThrLeuAlaHisTyrGlnValProAspGlySerValValAlaLeuVal 1598  
Db 5284 AAGCGGCTTAACACACTGATGCAATACCAAGGTGTGACAGATCCGTTGGTCTGGT 5343  
Qy 1599 SerLysGlnValThrAlaTyrAsnAlaValAsnSerThrValSerArgThrSerAla 1618

Db 5344 CCTAAGCAGACCTCTCTTACAAATCCCTGCTGCTGCGAGCATCTCTCGACATCCATT 5403  
Qy 1619 SerLysTyrGluAsnMetIleArgTyrThrGlySerProAspSerLeuArgSerArgThr 1638  
Db 5404 AGCATATATGACTCTCTCTTCCAGTACACAGGAGCCAGACAGCTCCGGTCCCGGTC 5463  
Qy 1639 ProMetIleThrProAspLeuGluSerGlyValLysMetTyrHisLeuValLysAsnHis 1658  
Db 5464 CCCATGATCACCCAGACCTGGAGAGCGGTGTCAAGTTTGGCATCTGTTGAAGATCAT 5523  
Qy 1659 GluHisGlyAspGlnLysGluGlyAspArgGlySerLysMetValSerGluIleTyrLeu 1678  
Db 5524 GACCATGTGTACAGAGGAGGGTGCACCGGGGAGCAAAATGGTGTCTGAGATCTACTTG 5583  
Qy 1679 ThrArgLeuLeuAlaThrLysGlyThrLeuGlnLysPheValAspAspLeuPheGluThr 1698  
Db 5584 ACCCGGCTCTAGCCACCAAGGCACTCCGCAAAATTTTGGACGACATGTTTGAGACC 5643  
Qy 1699 IlePheSerThrAlaHisArgGlySerAlaLeuProLeuAlaIleLysTyrMetPheAsp 1718  
Db 5644 TTGTTGACGACTGTGACCGGGTAGTGTCTCTCCCTAGCCATCAAGTACATGTTTGTAT 5703  
Qy 1719 PheLeuAspGluGlnAlaAspLysHisGlyIleHisAspProHisValArgHisThrTyr 1738  
Db 5704 TTCTGTGATGAGCAGCAGCAGACACAGTATCCAGCACACAGATGTGGGCACACTGG 5763  
Qy 1739 LysSerAsnCysLeuProLeuArgPheThrValAsnMetIleLysAsnProGlnPheVal 1758  
Db 5764 AAAAGCAACTGCTCTCCACTTCGTTCTGGTGAATGTATCAAGAACCTCAATTTGTA 5823  
Qy 1759 PheAspIleHisLysAsnSerIleThrAspAlaCysLeuSerValValAlaGlnThrPhe 1778  
Db 5824 TTTGACATCCACAAAGGCGCAGCATCAGATGCTGCTCTCTGTGTAGCCACAGCTTT 5883  
Qy 1779 MetAspSerCysSerThrSerGluHisArgLeuGlyLysAspSerProSerAsnLysLeu 1798  
Db 5884 ATGAGCTCTCTGTTCCACATCAGAGCCGAGTACAGGACTCACCTTCCAAACAGCTG 5943  
Qy 1799 LeuTyrAlaLysAspIleProSerTyrLysAsnTyrValGluArgTyrTyrSerAspIle 1818  
Db 5944 CTCTATGCCAAGGATATCCCGAGTTATAGAACTGGGTAGAAAGATCTATGTCAGATAT 6003  
Qy 1819 GlyLysMetProAlaIleSerAspGlnAspMetAsnAlaTyrLeuAlaGluGlnSerArg 1838  
Db 6004 GCCAAGCTCCCGACCATAGTAGCAAGATATGAATGCTTACCTCGCGGAGCAGTCCCGC 6063  
Qy 1839 MetHisMetAsnGluPheAsnThrMetSerAlaLeuSerGluIlePheSerTyrValGly 1858  
Db 6064 CTGCATGCTACAGAGTTCAATATGCTGAGCGCCTCAACGAGATCTACTCATATGTCAGC 6123  
Qy 1859 LysTyrSerGluGluIleLeuGlyProLeuAspHisAspGlnCysGlyLysGlnLys 1878  
Db 6124 AAGTACAGTGGAGGCTCATCGGGGCACTAGACGAGATGAACAGGCCCGCAGCAACGA 6183  
Qy 1879 LeuAlaTyrLysLeuGlnValIleThrLeuMetSerLeuAspSerAsnLys 1896  
Db 6184 CTGCGCTTACAGGTGGAGCATCTCATCAAGCCCATGTCTCATAGAGAGCTGAAAG 6237

RESULT 4

US-10-312-352-70  
; Sequence 70, Application US/10312352  
; Publication No. US20040053824A1  
; GENERAL INFORMATION:  
; APPLICANT: INCYTE GENOMICS, INC.; TANG, Y. Tom  
; APPLICANT: YUE, Henry; AZIMZAI, Yalda  
; APPLICANT: HE, Ann; BATRA, Sajeev  
; APPLICANT: LO, Terence P.; NGUYEN, Darniel B.  
; APPLICANT: BURRILL, John D.; MARCUS, Gregory A.  
; APPLICANT: ZINGLER, Kurt A.; GANDHI, Ameena R.  
; APPLICANT: LAU, Preeti G.; KEARNEY, Liam  
; APPLICANT: BURFORD, Neil; YAO, Monique G.  
; APPLICANT: CHAWLA, Narinder K.; ELLIOT, Vicki S.  
; APPLICANT: ARVIZU, Chandra S.; KHAN, Farrah A.

131	GlySerLeuTyrGlnGlyIleCysLysLeuLeuArgLeuGluAspLeuPheLysLeuGly	150
132	GGCAGGGCTCCACGGGCACTCTGCGAGTCTCTGCGAGTCTCTTCAAACTGGT	611
151	GlupTyrHisLysLysGluHisTyrLeuSerGlyValAsnGluSerGlySerValPhe	170
612	GACCCACACCCGTAAGGAGCACTACCTGTGCCAGTGCAGGAGGAGGCATGAGCG	671
171	GlyValIleValSer-----TyrSerAsnLeuAspAspLysLeuPheIleAlaThrAla	188
672	GGCGTGCTCATTTGCGGGGCCACCGGGCCAGGGCCAGCCAAAGCTCTTCGTGGGCACACCC	731
189	ValAspGlyLysProGluTyrPheProThrIleSerArgLysLeuThrLysAsnSer	208
732	ATCATGGCAAGTCCGAGTACTTCCCACTGTCTCCAGCCGTGCGGTCTATGCGCAACGAG	791
209	GluAlaAspGlyMetPheAlaTyrValPheHisAspGluPheValAlaSerMetIleLys	228
792	GAGGATGCCGACATGTTGCGGTCTGTGTACACAGGATGAGTTGTGTCACTACAGCTCAAG	851
229	IleProSerAspThrPheThrIleIleProAspPheAspIleTyrTyrValTyrGlyPhe	248
852	ATCCCTTCGGACACGCTGCCAAGTTCGCGGCTTTGACATCTACTATGTGTACAGCTTC	911
249	SerSerGlyAsnPheValTyrPheLeuThrIleuGln-----ProGluMetValSerPro	266
912	CGCAGCGAGCAGTGTGCTACTACTCTACGCTGCAGCTAGACACACAGCTCACTCGCT	971
267	ProGlySerThrThrLysGluGlnValTyrThrSerLysLeuValArgLeuCysLysGlu	286
972	-----GATGCGCGCGCGAGCACTCTTCTCAGTCCAAAGATCGTGGCGCTCTGTGTGAC	1025
287	AspThrAlaPheAsnSerTyrValGluValProIleGlyCysGluArgSerGlyValGlu	306
1026	GACCCCAAAATTCATCTGCTACGTTGAGTTGCCATTTGGCTGCGAGCAGCGGGTGGAG	1085
307	TyrArgLeuLeuGlnAlaAlaTyrLeuSerLysAlaGlyAlaValLeuGlyArgThrLeu	326
1086	TACCGCTGTGTGAGGATGCCATCTACCTGAGCGCGCGCGCGCTCGCCCTGGCCACAGCTG	1145
327	GlyValHisProAspAspLeuLeuPheThrValPheSerLysGlyGlnLysArgLys	346
1146	GGCGTGGCTGAGCAGCAGGAGCTGTGTTCACTGTGTCGCCAGGGCCAGAAACCCG	1205
347	MetLysSerLeuAspGluSerAlaLeuCysIlePheIleLeuLysGlnIleAsnAspArg	366
1206	GTGAAGCCACAAAGGAGTCAGCACTGTGCTGTTTCAGCGTCAGGGGCCATCAAGGAGAG	1265
367	IleLysGluArgLeuGlnSerCysTyrArgGlyGluGlyThrLeuAspLeuAlaThrLeu	386
1266	ATTAAGAGCGCATCGCATGCTGCTACCGGTGTGAGGCGCAGCTCTCCCTGCGCTGGCTG	1325
387	LysValLysAspIleProCysSerSerAlaLeuLeuThrIleAspAspAsnPheCysGly	406
1326	CTCAACAAAGGAGTGGGCTGCATCAACTCGCCCTGCGAGATCGATGAGCACTTCTGCGGG	1385
407	LeuAspMetAsnAlaProLeuGlyValSerAspMetValArgGlyIleProValPheThr	426
1386	CAGACTTCAACAGCGCCCTTGGGGGCACAGTCACCATGTAGGGAGCGCCCTGTTCGTG	1445
427	GluAspArgAspArgMetThrSerValIleAlaTyrValTyrLysAsnHisSerLeuAla	446
1446	GACAAGGATGATGCGCTGACCGCGTGGCTGCTATGACTATCGGGGCGCAGCTGTGTGTA	1505
447	PheValGlyThrLysSerGlyLysLysLysLysIleArgValAsp-----GlyProArg	464
1506	TTGCGCGGCACGCAAGTGGCGCATCCCGCAAGATCTGTGTGAGACTCTCTCAACCCCGGT	1565
465	GlyAsn---AlaLeuGlnTyrGluThrValGlnValValAspProGlyProValLeuArg	483
1566	GGCGGCGCTCCCTTGACCTACAGACGCTGTGGCCAGGAGGAGGAGCCATCTCTGGGA	1625

Qy	484	AspMetAlaPheSerLysAspHisGluGlnLeuTyrIleMetSerGluArgGlnLeuThr	503
Db	1626	GACTCGCTCTCAGCCCAACCAACAGCTACCTCTACGCCATGACCGAAGACAGGTGACG	1685
Qy	504	ArgValProValGluSerCysGlyGlnTyrGlnSerCysGlyGluCysLeuGlySerGly	523
Db	1686	CGGATGCTGTGGAGAGCTGTGTCAGTACACGTCTCTGAGCTGTCTCTGGGGTCACGG	1745
Qy	524	AspProHisCysGlyTyrCysValLeuHisAsnThrCysThrArgLysGluArgCysGlu	543
Db	1746	GACCCCACTGTGGCTGTGTCTCTCAGCATCTGCTCGCGCGCGGACAGCGCTGTGAG	1805
Qy	544	ArgSerLysGluProArgArgPheAlaSerGluMetLysClnCysValArgLeuThrVal	563
Db	1806	CGACAGACGACCCAGCGTGTCTGCGGACCTGTGAGTGTGTGAGCTGTGAGCTGTG	1865
Qy	564	HisProAsnAsnIleSerValSerGlnTyrAsnValLeuLeuValLeuGluThrTyrAsn	583
Db	1866	CAGCCCGCAATGTGTCTGTCACCATGTCCAGGTCCCACTGTGTGTGTCGAGCGTGAAC	1925
Qy	584	ValProGluLeuSerAlaGlyValAsnCysThrPheGluAspLeuSerGluMetAspGly	603
Db	1926	GTGCTCATCCTCTCAGCTGGCGTCACTGTCTCTCGAGACTTTCAGGAATCTGAGAGC	1985
Qy	604	LeuValValGlyAsnGlnIleGlnCysTyrSerProAlaIalysGluValProArgIle	623
Db	1986	GTCTGGAGGATGCCGAGTCCACTGCGCTCACCTCCGCGGAGGTGGCGCCATC	2045
Qy	624	IleThrGluAsnGlyAspHisHisValValGlnLeuGlnIleLysSerLysGluThrGly	643
Db	2046	ACGCGGGCCAGGAGACCAAGCGGTGTGAAACTTACCTAAAGTCCAAAGGAGACAGGG	2105
Qy	644	MetThrPheAlaSerThrSerPheValPheTyrAsnCysSerValHisAsnSerCysLeu	663
Db	2106	AAGAAGTTTGGCTGTGTGGACTTCGTCTTCTACACTGAGAGTCCACCACTCTGCCTG	2165
Qy	664	SerCysValGluSerProTyrArgCysHisTyrCysLysTyrArgHisValCysThrHis	683
Db	2166	TCCTGTGTCAACGGCTCCTTTCCCTGCGCACTGTGTGCAATAACGCCACGTGTGCACAC	2225
Qy	684	AspProLysThrCysSerPheGlnGluGlyArgValLysLeuProGluAspCysProGln	703
Db	2226	AACGTGCTGACTCGGCTTCTCTGGAGGCGGTGTCAAGCTGTGAGGACTGCCACAG	2285
Qy	704	LeuLeuArgValAspLysIleLeuValProValGluValIleLysProIleThrLeuLys	723
Db	2286	ATCTCGCCTCCACGCAGATCTACGTCCAGTGGAGTGTGTAAACCCATCACCTGGCC	2345
Qy	724	AlaLysAsnLeuProGlnProGlnSerGlyGlnArgGlyTyrGluCysIleLeuAsnIle	743
Db	2346	GCACGGAACCTGCCACAGCCACATCAGGCGAGGTGTGATAGTGCTCTTCCACATC	2405
Qy	744	GlnGlySerGluGlnArgValProAlaLeuArgPheAsnSerSerValGlnCysGln	763
Db	2406	CCGGGACGCCGCGGTGTCCACGCCCTCGCTTCAACAGTCCACCTCGAGTGCAG	2465
Qy	764	AsnThrSerTyrSerTyrGluGlyMetGluIleAsnAsnLeuProValGluLeuThrVal	783
Db	2466	AATTCTCTGTACTCTCAGAGGGAAACGATGTTCAGCACCTGCCAGTGAACCTGTCTAGC	2525
Qy	784	ValTrpAsnGlyHisPheAsnIleAspAsnProAlaGlnAsnLysValHisLeuTyrLys	803
Db	2526	GTGTGGAAACGCAACTTGTCTATTGACACCCACAGACATCCAGGCGCACCTCTACAG	2585
Qy	804	CysGlyAlaMetArgGluSerCysGlyLeuCysLeuLysAlaAspProAspPheAlaCys	823
Db	2586	TGCCGGGCCCTCGCGAGAGCTGGCGCTCTGCTCTCAAGSCCGACCGCGCTTCGAGTGC	2645
Qy	824	GlyTyrCysGlnGlyProGlyGlnCysThrLeuArgGlnHisCysProAlaGln--Glu	842
Db	2646	GGATGTCGTGGCGGACGCGCTGTCTCTCTGGACACCACTCGCTGGCGGACACACT	2705
Qy	843	SerGlnTrpLeuGluLeuSerGlyAlaLysSerLysCysThrAsnProArgIleThrGlu	862

2706	Db	GCATCGTGGATGCACGGCGGTGCACGGCAGCAGTGCCTGCACCGACCGACCCCAAGATCTCTCAAG	2765	Qy	ILEILEPROVALTHRGLYPROARGGLUGLYTHRLYSVALTHRILEARGGLYGLUASN	882
863	Qy	ILEILEPROVALTHRGLYPROARGGLUGLYTHRLYSVALTHRILEARGGLYGLUASN	882	Db	CTGTCTCCCGCAGACGGCCGCGAGGACGGCGGCACCGGGCTCACTATCATCAGCGGAGAAC	2825
2766	Db	CTGTCTCCCGCAGACGGCCGCGAGGACGGCGGCACCGGGCTCACTATCATCAGCGGAGAAC	2825	Qy	LEUGLYLEUGLUPHEARGASPLEALASERHISVALYSVALAALAGLYVALGLUCYSYSR	902
883	Qy	LEUGLYLEUGLUPHEARGASPLEALASERHISVALYSVALAALAGLYVALGLUCYSYSR	902	Db	CTGGCGCTCGGATTCAAGACAGTCGCTCTGGCGTGGCGGTGGCGAAGGTGCTGTGTGCAG	2885
2826	Db	CTGGCGCTCGGATTCAAGACAGTCGCTCTGGCGTGGCGGTGGCGAAGGTGCTGTGTGCAG	2885	Qy	PROLEUVALASPDGLYTRILEPROALAGLUGLNIIEVALCYSGLUMETGLYGLUALLALYS	922
903	Qy	PROLEUVALASPDGLYTRILEPROALAGLUGLNIIEVALCYSGLUMETGLYGLUALLALYS	922	Db	CTGTGTGAGAGCGAGTACATCAGTCCGGAGCAGATCGTCTGTGAGATCCGGGACGCCAGC	2945
2886	Db	CTGTGTGAGAGCGAGTACATCAGTCCGGAGCAGATCGTCTGTGAGATCCGGGACGCCAGC	2945	Qy	PROSEKELN---HISALAGLYPHEVALGLUIELCYEVALAALVALCYSARGPROGLUPHE	941
923	Qy	PROSEKELN---HISALAGLYPHEVALGLUIELCYEVALAALVALCYSARGPROGLUPHE	941	Db	TCCGTGCGTGCCCATCAGCCCTCTGGTGGAGGTGTGTGTGGGACTGCTCACACACTAC	3005
2946	Db	TCCGTGCGTGCCCATCAGCCCTCTGGTGGAGGTGTGTGTGGGACTGCTCACACACTAC	3005	Qy	METALARGSERSEGLNLEUTYRYPHEMETHLEUTHLEUSERASPLEULYSPPRO	961
942	Qy	METALARGSERSEGLNLEUTYRYPHEMETHLEUTHLEUSERASPLEULYSPPRO	961	Db	CGCGCCCTGTCACCCAAAGCGCTCACCTCTGTGACACCAACCTTCAACCGTGGAGCCCC	3065
3006	Db	CGCGCCCTGTCACCCAAAGCGCTCACCTCTGTGACACCAACCTTCAACCGTGGAGCCCC	3065	Qy	SETARGGLYPROMETSERGLYTHRGLINVALTHRIETHRGLYTHRASNLEUASNALA	981
962	Qy	SETARGGLYPROMETSERGLYTHRGLINVALTHRIETHRGLYTHRASNLEUASNALA	981	Db	TCCCGTGGGCTCTGTTCAGGGGSCACCTGGAITGGCATCGAGGAAGCCACCTGAACGCA	3125
3066	Db	TCCCGTGGGCTCTGTTCAGGGGSCACCTGGAITGGCATCGAGGAAGCCACCTGAACGCA	3125	Qy	GLYSERASNVALVALMETPHEGLYLYSGLNPROCYSELEUPHEHISARGARGSERPRO	1001
982	Qy	GLYSERASNVALVALMETPHEGLYLYSGLNPROCYSELEUPHEHISARGARGSERPRO	1001	Db	GGCAGTCATGTGCTGTGTCGTCGTGGCCGCGCTGTCTCTTCCTGGAGGAACCTCC	3185
3126	Db	GGCAGTCATGTGCTGTGTCGTCGTGGCCGCGCTGTCTCTTCCTGGAGGAACCTCC	3185	Qy	SERTYRILEVALCYSEASNTHRRSERSERASPLUVALLEUGLUMETLYSVALSERVAL	1021
1002	Qy	SERTYRILEVALCYSEASNTHRRSERSERASPLUVALLEUGLUMETLYSVALSERVAL	1021	Db	CGTGAGATCGGTGCTGCACACCCCGGGCAGAGCCCTGGCAGCGCTCCCATCATCATC	3245
3186	Db	CGTGAGATCGGTGCTGCACACCCCGGGCAGAGCCCTGGCAGCGCTCCCATCATCATC	3245	Qy	GLNVALASPARGLALYSILE---HISGLINASPLUVALPHEGLNTHYRVALGLUASPPRO	1040
1022	Qy	GLNVALASPARGLALYSILE---HISGLINASPLUVALPHEGLNTHYRVALGLUASPPRO	1040	Db	AACATCAACCGCCCGCAGCTCACCAACCCCTGAGGTGAAGTACAACATACACCGGAGACCCC	3305
3246	Db	AACATCAACCGCCCGCAGCTCACCAACCCCTGAGGTGAAGTACAACATACACCGGAGACCCC	3305	Qy	THRIEVALARGILEGLUPROGLUTPSPRIEVALISERGLYASNTHRPROILEALVAL	1060
1041	Qy	THRIEVALARGILEGLUPROGLUTPSPRIEVALISERGLYASNTHRPROILEALVAL	1060	Db	ACCATCTTGAGATCACCCCGGATGAGCATCAACAGCGGTGGGACCCCTCTCTGACGGTIC	3365
3306	Db	ACCATCTTGAGATCACCCCGGATGAGCATCAACAGCGGTGGGACCCCTCTCTGACGGTIC	3365	Qy	TRPGLYTHRISLEUASPLEULEGLINASNPROGLINILEARGALALYSIHISGLYGLYLYS	1080
1061	Qy	TRPGLYTHRISLEUASPLEULEGLINASNPROGLINILEARGALALYSIHISGLYGLYLYS	1080	Db	ACAGGACCAACCTGTGCCCATGTCTCGTGAACCCCGAATCCGGGCCCAAGTATGAGGCAAT	3425
3366	Db	ACAGGACCAACCTGTGCCCATGTCTCGTGAACCCCGAATCCGGGCCCAAGTATGAGGCAAT	3425	Qy	GLUHISLEASNILECYSEGLUVALLEUASNALATHRGLUMETHRCSYSGLNALAPROALA	1100
1081	Qy	GLUHISLEASNILECYSEGLUVALLEUASNALATHRGLUMETHRCSYSGLNALAPROALA	1100	Db	GAGAGGAGAACGGCTGCTGTGTGATGACACACCATGGTATGCGCGGCCCGCTCT	3485
3426	Db	GAGAGGAGAACGGCTGCTGTGTGATGACACACCATGGTATGCGCGGCCCGCTCT	3485	Qy	LEUALALEUGLYPROASPHISGLINSEASPLLEUTHRGLUARGPROGLUPEHGLYPHE	1120
1101	Qy	LEUALALEUGLYPROASPHISGLINSEASPLLEUTHRGLUARGPROGLUPEHGLYPHE	1120	Db	GTGGCCAAACCTGTGGCAGCCCCACCGAGCTGGGGAGCGCGCGGATGAGCTGGGCTTC	3545
3486	Db	GTGGCCAAACCTGTGGCAGCCCCACCGAGCTGGGGAGCGCGCGGATGAGCTGGGCTTC	3545	Qy	ILELEUASASNVALGLINSEULEULELEUASNLYSTHASNPHETHRYTYRPRO	1140
1121	Qy	ILELEUASASNVALGLINSEULEULELEUASNLYSTHASNPHETHRYTYRPRO	1140	Db	GTCAATGACAACTGGCGTCCCTGTGTGTCTCAACTCCACCTCTCTCTACTACCCT	3605
3546	Db	GTCAATGACAACTGGCGTCCCTGTGTGTCTCAACTCCACCTCTCTCTACTACCCT	3605	Qy	ASNPROVALPHEGLUALAPHEGLYPROSERGLYILELEULEULEULYSPPROGLYTHRPRO	1160
1141	Qy	ASNPROVALPHEGLUALAPHEGLYPROSERGLYILELEULEULEULYSPPROGLYTHRPRO	1160	Db	GACCCCGTACTGGAGCCACTCAGCCCACTGGCCTGCTGGAGCTGAAGCCCACTCCCCA	3665
3606	Db	GACCCCGTACTGGAGCCACTCAGCCCACTGGCCTGCTGGAGCTGAAGCCCACTCCCCA	3665	Qy	ILEILELEULYSGLYLYSASNLEULELEUPROPROVALALAGLYASNVALLYSLEUASN	1180
1161	Qy	ILEILELEULYSGLYLYSASNLEULELEUPROPROVALALAGLYASNVALLYSLEUASN	1180	Db	CTCATCTCTCAAGGCGGAACTCTTGGCCACT--GCACCCGGGCACTCCCGACTCAAC	3722
3666	Db	CTCATCTCTCAAGGCGGAACTCTTGGCCACT--GCACCCGGGCACTCCCGACTCAAC	3722	Qy	TYRTHRVALLLEUVALGLYGLULYSPROCYSTHTRVALTHRVALSERASPLINLEULEU	1200
1181	Qy	TYRTHRVALLLEUVALGLYGLULYSPROCYSTHTRVALTHRVALSERASPLINLEULEU	1200	Db	TACAGGTGCTCATCGGCTCCACACCTGTACCTCATCGTGTGAGAGCGCAACTGCTG	3782
3723	Db	TACAGGTGCTCATCGGCTCCACACCTGTACCTCATCGTGTGAGAGCGCAACTGCTG	3782	Qy	CYSGLINSEPROASNLEULEGLYARGHISLYSVALMETALARGVALGLYGLYMETGLU	1220
1201	Qy	CYSGLINSEPROASNLEULEGLYARGHISLYSVALMETALARGVALGLYGLYMETGLU	1220			



APPLICANT: Ellerman, Karen  
 APPLICANT: Stone, David J.  
 APPLICANT: Grosse, William M.  
 APPLICANT: Lepley, Denise M.  
 APPLICANT: Rieger, Daniel K.  
 APPLICANT: Burgess, Catherine E.  
 APPLICANT: Casman, Stacie, J.  
 APPLICANT: Spytek, Kimberly A.  
 APPLICANT: Boldog, Ferenc L.  
 APPLICANT: Li, Li  
 APPLICANT: Padigaru, Muralidhara  
 APPLICANT: Mishra, Vishnu  
 APPLICANT: Shency, Suresh G.  
 APPLICANT: Rastelli, Luca  
 APPLICANT: Tchernev, Velizar T.  
 APPLICANT: Vernet, Corine A.M.  
 APPLICANT: Zerhusen, Bryan D.  
 APPLICANT: Malyankar, Uriel M.  
 APPLICANT: Guo, Xiaojia  
 APPLICANT: Miller, Charles E.  
 APPLICANT: Gangolli, Esha A.

TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS ENCODING SAME  
 FILE REFERENCE: 21402-214 CIP  
 CURRENT APPLICATION NUMBER: US/10/087,684  
 CURRENT FILING DATE: 2003-03-10

PRIOR APPLICATION NUMBER: 60/253,834  
 PRIOR FILING DATE: 2000-11-29  
 PRIOR APPLICATION NUMBER: 60/250,926  
 PRIOR FILING DATE: 2000-11-30  
 PRIOR APPLICATION NUMBER: 60/264,180  
 PRIOR FILING DATE: 2001-01-25  
 PRIOR APPLICATION NUMBER: 60/274,194  
 PRIOR FILING DATE: 2001-03-08  
 PRIOR APPLICATION NUMBER: 60/313,656  
 PRIOR FILING DATE: 2001-08-20  
 PRIOR APPLICATION NUMBER: 60/327,456  
 PRIOR FILING DATE: 2001-10-05

NUMBER OF SEQ ID NOS: 220  
 SOFTWARE: CuraseqList version 0.1  
 SEQ ID NO 31

LENGTH: 5895  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: (23)..(5797)  
 US-10-087-684-31

Alignment Scores:

	Pred. No.:	Length:	Score:
QY	11 LeuLeuSerHisLeuLeuMetValGlyMetGlySerThrLeuLeuThrArgInPro 30	5895	6267.50
Db	119 CTGCTGTTCCTGCTGCTGCCGGCAGTGTGGCTGAGCGAGGCTTG-----CCC 169	Matches: 1214	Percent Similarity: 77.33%
QY	31 AlaProLeuSerGlnLysGlnArgSerPheValThrPheArgGlygluProAlaGlugly 50	Conservative: 260	Best Local Similarity: 63.69%
Db	170 AGGGCAGGGGGGGTTCACAGCCCCCTCCGCACCTTCCTCGGCCACGCAC---TGGGGC 226	Mismatches: 397	Query Match: 63.74%
QY	51 PheAsnHisLeuValValaspGluArgThrGlyHisIleTyrluGlyValalaValasnArg 70	Indels: 35	DB: 13
Db	227 CTCACCACCTAGTGTGTATGAGCAGACAGCGAGGTGTATGTGGGCCCATGAACCC 286	Gaps: 23	
QY	71 IleTyrluLeuSerSerAspleuLysValLeuValThrHiscluthrGlyProaspGlu 90		
Db	287 ATCTATAAGCTGTGCGGGAACTCGACACTGTCTCGGGGCCCACTGCTCACGGGCCCTGTGGAG 346		



[illegible]



1534 AspAlaIlePheLysAenValProCysSerHisArgProLysAlaAlaAspMetAspLeu 1553  
1554 GluTrpArgGlnGlySerGlyAlaArgMetIleLeuGlnAspGluAspIleThrThrLys 1573  
1574 IleGluAsnAspTtPlyLysArgLeuAsnThrLeuAlaHisTyrGlnValProAspGlySer 1593  
4823 ATTGACAAACGATTGGAGAGGCTGAACACACTGGCTCATTACCAAGGTGACAGCGGTTC 4882  
1594 ValValAlaLeuValSerLysGlnValThrAlaTyrAenAlaValAenAsnSerThrVal 1613  
4883 TCGGTGGCACTGGTGGCCCAAGCAGACGTCGCGCTACCAACATCTCCAACTCTCCACCTTC 4942  
1614 SerArgThrSerAlaSerLysTyrGluAsnMetIleArgTyrThrGlySerProAspSer 1633  
4943 ACCAAG--TCCCTCAGCAGATACGAGAGCATGCTGCGCAGCGCCAGCAGCCCGCAGC 4999  
1634 LeuArgSerArgThrProMetIleThrProAspLeuGluSerGlyValLysMetTyrHis 1653  
5000 CTGGCTCGCGCAGCCCATGATCAGCCCGACCTGGAGAGCGGCACCAAGCTGTGGCAC 5059  
1654 LeuValLysAenHisGluHisGlyAspGlnLysGluLysAspArgGlySerLysMetVal 1673  
5060 CTGGTGAAGAACCAACGACCACTGGACCGGTGAGGTACCGCGCAGCAAGATGGTC 5119  
1674 SerGluIleTyrLeuThrArgLeuLeuAlaThrLys---GlyThrLeuGlnLysPheVal 1692  
5120 TCGGAGATCTACTTGCACGCTACTGGCCACCAAGCAGGGCACACTGCGAGAGTTTGTG 5179  
1693 AspAspLeuPheGluThrIlePheSerThrAlaHisArgGlySerAlaLeuProLeuAla 1712  
5180 GACGACCTGTTGAGACCATCTTCAGCACGGCACACCGGGGCTCAGCCCTGCGCGTGGCC 5239  
1713 IleLysTyrMetPheAspPheLeuAspGluGluAlaAspLysHisGlyIleHisAspPro 1732  
5240 ATCAAGTACATGTTTCGATCTTCTGGATGAGCGCGCACCAAGCAGCAGATCCACGATGT 5299  
1733 HisValArgHisThrTrpLysSerAsnCys---LeuProLeuArgPheTrpValAsnMet 1751  
5300 GACGTGGCGCACACCTGGAAGAGCACTGCGAGCTGCGCTGCGCTTCTGGGTGAACGTG 5359  
1752 IleLysAsnProGlnPheValPheAspIleHisLysAsnSerIleThrAspAlaCysLeu 1771  
5360 ATCAAGAACCCACAGTTTGTTCGACATTCACAAAGAACAGCATCAGCGAGCTGTGTG 5419  
1772 SerValValAlaGlnThrPheMetAspSerCysSerThrSerGluHisArgLeuGlyLys 1791  
5420 TCGGTGGTGGCCAGACCTTCATGACTCTCTGCTCCACTCTGAGCAACAAGCTGGCAAG 5479  
1792 AspSerProSerAsnLysLeuLeuTyrAlaLysAspIleProSerTyrLysAsnTrpVal 1811  
5480 GACTCACCTCCAAAGCTGCTCTACGCAAGGACATCCCAACTCAAGAGCTGGGTG 5539  
1812 Glu---ArgTyrTyrSerAspIleGlyLysMetProAlaIleSerAspGlnAspMetAsn 1830  
5540 GAGAGGAGGTACTATGACAGCATCGCCAGATGCGAGCCATCAGCGACAGGACATGAGT 5599  
1831 AlaTyrLeuAlaGluGlnSerArgMetHisMetAsnGluPheAsnThrMetSerAlaLeu 1850  
5600 CGGTATCTGGCTGAGCAGTCCCGCTGCATGAGCCAGGTTCACACATGAGCGGCTTG 5659  
1851 SerGluIlePheSerTyrValGlyLysTyrSerGluGlu-----IleLeuGlyProLeu 1868  
5660 CACGAGATCTACTCTACATCAACAGTACAAAGATGAGGTGCGAGATCTCTGGCAGCCCTG 5719  
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5720 GAGAAGGATGAGCAGCGCGCGCAGCGGTCTCGGAGCAAGCTGCGAGAGGTGGTGGAC 5779

3578 CTGAAGCCCGAGCTCCCACTCATCTCAAGGGCGGAACCTCTTGGCACT---GCACCC 3634  
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1215 ArgValGlyGlyMetGluTyrSerProGlyMetValTyrIleAlaProAspSerProLeu 1234  
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3875 GCTGTGCTCATCCCTCAGAGCCCAAGTACAGAGATGCTGACCGCACATCAAGCGGCTG 3934  
1275 GlnMetGlnMetAspAsnLeuGluSerArgValAlaLeuGluCysLysGluAlaPheAla 1294  
3935 CAGCTCCAGATGAGCAACCTGGAGTCCCGCTGGCCCTCGAATGCAAGAACCTTTGCA 3994  
1295 GluLeuGlnThrAspIleHisGluLeuThrSerAspLeuAspGlyAlaGlyIleProPhe 1314  
3995 GAGCTCGACAGACATCAACGAGCTGACCAATGACTGGAGGTGCGCGCATCCCTCTTC 4054  
1315 LeuAspTyrArgThrTyrThrMetArgValLeuPheProGlyIleGluAspHisProVal 1334  
4055 CTTGACTACGGACATATCCATCGCGGTGCTCTTCTGGGATCGAGACCACTCTGTG 4114  
1335 LeuArgAspLeuGluValProGlyTyrArgGlnLysArgValGluLysGlyLeuLysLeu 1354  
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1355 PheAlaGlnLeuIleAsnAsnLysValPheLeuLeuSerPheIleArgThrLeuGluSer 1374  
4163 TTCGGGAGCTGCTGACCAAGAAGCACTTCTGCTGACCTTCATCGCACGCTGGAGCA 4222  
1375 GlnArgSerPheSerMetArgAspArgGlyAsnValAlaSerLeuIleMetThrValLeu 1394  
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1395 GlnSerLysLeuGluTyrAlaThrAspValLeuLysGlnLeuLeuAlaAspLeuIleAsp 1414  
4283 CAGGGCGAGTGAATACGCCACAGCGGTGCTCAGCAGCTGCTTTCGACCTCATCGAG 4342  
1415 LysAsnLeuGluSerLysAsnHisProLysLeuLeuLeuArg---ThrGluSerVal 1433  
4343 AAGACCTGAGAGCAAGAACCACCCCAAGCTCTACTGCGCGGCCAACTGAGTCGGTG 4402  
1434 AlaGluLysMetLeuThrAsnTrpPheThrLeuLeuTyrLysPheLeuLysGluCys 1453  
4403 CGAGAGAGATGCTAACTAACTGGTTCACCTTCTCTGTATAAGTTCCTCAAGGAGTGC 4462  
1454 AlaGlyGluProLeuPheSerLeuPheCysAlaIleLysGlnMetGluLysGlyPro 1473  
4463 GCTGGGGAGCGCGTTCATGCTGTACTGCGCCATCAAGCAGCAGATGAGAGGCGCC 4522  
1474 IleAspAlaIleThrGlyGluAlaArgTyrSerLeuSerGluAspLysLeuIleArgGln 1493  
4523 ATTGAGCCCATCAGGCTGAGGACGCTACTCTCCTGAGTGAAGACATCTACCGGAC 4582  
1494 GlnIleAspTyrLysThrLeuValLeuSerCysValSerProAspAsnAlaAsnSerPro 1513  
4583 CAGATTGACTACAAGACACTGACCTGAACTGTGTGAACCTTGAGATGAGATGCACT 4642  
1514 GluValProValLysIleLeuAsnCysAspThrIleThrGlnValLysGluLysLeu 1533  
4643 GAGGTGCGGTGAAGGGCTGGACTGTGACACGCTCAGCGCTCAGCGCCCAAGGAGAGTGTG 4702

QY	1889	LeuMetSerLeuAspSer	1894
Db	5780	ACGATGGCCCTGAGCAGC	5797
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US-10-218-779-31			
; Sequence 31, Application US/10218779			
; Publication No. US2004002922A1			
; GENERAL INFORMATION:			
; APPLICANT: Edinger, Shlomit			
; APPLICANT: MacDougall, John			
; APPLICANT: Millet, Isabelle			
; APPLICANT: Ellemann, Karen			
; APPLICANT: Stone, David			
; APPLICANT: Gerlach, Valerie			
; APPLICANT: Grosse, William			
; APPLICANT: Alsobrook II, John			
; APPLICANT: Lepley, Denise			
; APPLICANT: Rieger, Catherine			
; APPLICANT: Burgess, Stacie			
; APPLICANT: Casman, Kimberly			
; APPLICANT: Spytex, Ferenc			
; APPLICANT: Boldog, Li, Li			
; APPLICANT: Padigaru, Murulidhar			
; APPLICANT: Mishra, Vishnu			
; APPLICANT: Patturajan, Meera			
; APPLICANT: Shenoy, Suresh			
; APPLICANT: Tchernev, Velizar			
; APPLICANT: Vernet, Corine			
; APPLICANT: Zerkhusen, Bryan			
; APPLICANT: Malyankar, Uriel			
; APPLICANT: Guo, Xiaojie			
; APPLICANT: Miller, Charles			
; APPLICANT: Gangoli, Esha			
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same			
; FILE REFERENCE: 21402-214			
; CURRENT APPLICATION NUMBER: US/10/218,779			
; PRIOR FILING DATE: 2002-08-14			
; PRIOR APPLICATION NUMBER: 60/253,834			
; PRIOR FILING DATE: 2000-11-29			
; PRIOR APPLICATION NUMBER: 60/250,-926			
; PRIOR FILING DATE: 2000-11-30			
; PRIOR APPLICATION NUMBER: 60/264,180			
; PRIOR FILING DATE: 2001-01-25			
; PRIOR APPLICATION NUMBER: 60/313,656			
; PRIOR FILING DATE: 2001-08-20			
; PRIOR APPLICATION NUMBER: 60/327,456			
; PRIOR FILING DATE: 2001-10-05			
; NUMBER OF SEQ ID NOS: 216			
; SOFTWARE: PatentIn Ver. 2.1			
; SEQ ID NO 31			
; LENGTH: 5895			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
US-10-218-779-31			
Alignment Scores:			
Score:	No.	Length:	5895
Pred:	0	Matches:	1214
Percent Similarity:	6267.50	Conservative:	260
Best Local Similarity:	77.33%	Mismatches:	397
Query Match:	63.69%	Indels:	35
DB:	13	Gaps:	23
US-09-964-956-13 (1-1896) x US-10-218-779-31 (1-5895)			
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Db	119	CTGCTGTGTGCCTGCTCGCGGCGATGTGGCGTTCG	169
Ov	31	AlaProLeuSerGlnLysGlnArgSerPheValThrPheArgGlyGluProAlaGluGly	50

Db 1241 CTCACAAAGAGAGTGGGCTGCATCAACTCGCCCTGCAGATGCAGACGACTTCTCGCGG 1300  
QY 407 LeuAspMetAsnAlaProLeuGlyValSerAspMetValArgGlyLeuProValPheThr 426  
Db 1301 CAGGACTTCAACAGAGCCCTGGGGCCACAGTCACCATTTGAGGGAGCCCTGTTCGTG 1360  
QY 427 GluAspArgAspArgMetThrSerValIleAlaTyrValTyrLysAsnHisSerLeuAla 446  
Db 1361 GACACAGATGATGCCTGCAGCCGCGTGGCTGCTGATGACTATCGGGGCGCAGCTGTGTA 1420  
QY 447 PheValGlyThrLysSerGlyLysLeuValLysIleArgValAsp-----GlyProArg 464  
Db 1421 TTCGCGGACAGGAGTGGCCATCCCGAAGATCTCGTGACCTCTCAAAACCCCGGT 1480  
QY 465 GlyAsn---AlaLeuGlnTyrGluThrValGlnValValAspProGlyProValLeuArg 483  
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QY 484 AspMetAlaPheSerLysAspHisGluGlnLeuTyrIleMetSerGluArgGlnLeuThr 503  
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QY 504 ArgValProValGluSerCysGlyGlnTyrGlnSerCysGlyGluCysLeuGlySerGly 523  
Db 1601 CGGCTGCTGTGAGAGCTGTGTGAGTACACGCTCTGTGAGTGTCTGGGTCACGG 1660  
QY 524 AspProHisCysGlyTyrCysValLeuHisAsnThrCysThrArgLysGluArgCysGlu 543  
Db 1661 GACCCCACTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 1720  
QY 544 ArgSerLysGluProArgArgPheAlaSerGluMetLysGlnCysValArgLeuThrVal 563  
Db 1721 CGAGCAGACGAGCCCGAGCGCTTGTGTGGAGCTGTGCTGCTGTGCTGTGCTGTGCTGTG 1780  
QY 564 HisProAsnAsnIleSerValSerGlnTyrAsnVal---LeuLeuValLeuGluThrTyr 582  
Db 1781 CAGCCCGCAGCAATGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1840  
QY 583 AsnValProLeuLeuSerAlaGlyValAsnCysThrPheGluAspLeuSerGluMetAsp 602  
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QY 603 GlyLeuValValGlyAsnGlnIleGlnCysTyrSerProAlaAlaLysGluValProArg 622  
Db 1901 AGCGTCTGAGGATGCGCGCTCCACTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1960  
QY 623 IleIle-----ThrGluAsnGlyAspHisHisValValClnLeuGlnLeuLysSerLys 640  
Db 1961 ATCAGCGGGGCCAGGGTGAAGGAGACAGCGGTGTGTAACCTTACCTAAAGTCCAG 2020  
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QY 660 AsnSerCysLeuSerCysValGluSerProTyrArgCysHisTyrCysLysTyrArgHis 679  
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QY 680 ValCysThrHisAspProLysThrCysSerPheGlnGluGlyArgValLysLeuProGlu 699  
Db 2141 GTGTGCACACACACAGTGGCTGACTGCGCTTCTTGGAGGCGCTGTCAACGTTCTGAG 2200  
QY 700 AspCysProGlnLeuLeuArgValAspLysIleLeuValProValGluValLysLysPro 719  
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QY 720 IleThrLeuLysAlaLysAsnLeuProGlnProGlnSerGlyGlnArgGlyTyrGluCys 739  
Db 2261 ATCACCTTGGCCGACGGAACCTGCCACACACAGTCAAGCCAGCGTGGATATGATGTC 2320  
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QY 760 ValGlnCysGlnAsnThrSerTyrSerTyrGluGlyMetGluIleAsnLeuProVal 779  
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QY 780 GluLeuThrValValTyrAsnGlyHisPheAsnIleAspAsnProAlaGlnAsnLysVal 799  
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QY 820 AspPheAlaCysGlyTyrCysGlnGlyProGlyGlnCysThrLeuArgGlnHisCysPro 839  
Db 2561 CGCTTCAGTGCAGTGTGCTGCGGCGAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2620  
QY 840 AlaGln---GluSerGlnTyrLeuGluLeuSerGlyAlaLysSerLysCysThrAsnPro 858  
Db 2621 GCCACACACCTGATCGTGTGATGCAGCGCGCTCAAGGAGAGTGTGCTGCTGCTGCTGCTGCTG 2680  
QY 859 ArgIleThrGluIleIleProValThrGlyProArgGluGlyGlyThrLysValThrIle 878  
Db 2681 AAGATCTCAAGCTGCTCCCGAGACGGGCGGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2740  
QY 879 ArgGlyGluAsnLeuGlyLeuGluPheArgAspIleAlaSerHisValLysValAlaGly 898  
Db 2741 ACAGCGGAGAACCTGGGCTGCGATTCGAAGATGCTGCTGCGGCGGCGGCGGCGGCGGCGGCGG 2800  
QY 899 ValGluCysSerProLeuValAspGlyTyrIleProAlaGluGlnIleValCysGluMet 918  
Db 2801 GTGCTGTGAGCCCTGTGGAGAGCGAGTACATCAGTGCAGGAGCAGATGCTGTGAGATC 2860  
QY 919 GlyGluAlaLysProSerGln---HisAlaGlyPheValGluLysCysAlaValCys 937  
Db 2861 GGGAGCCAGCTCCGCGCGCTCAATGAGCGCTGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2920  
QY 938 ArgProGluPheMetAlaArgSerSerGlnLeuTyrTyrPheMetThrLeuThrLeuSer 957  
Db 2921 TCACCAACACTACCGCGCTGTCTACCAAGCGCTTACCTTCGTGACACCAACCTTCTAC 2980  
QY 958 AspLeuLysProSerArgGlyProMetSerGlyGlyThrGlnValThrIleThrGlyThr 977  
Db 2981 CGTGTGAGCCCTCCGCTGGGCTCTGTGAGGGGCGACCTGAGTTCGATCGAGGGAAGC 3040  
QY 978 AsnLeuAsnAlaGlySerAsnValValMetPheGlyLysGlnProCysLeuPhe--- 996  
Db 3041 CACCTGAACGAGGAGCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3100  
QY 997 ---HisArgArgSerProSerTyrIleValCysAsnThrThrSerSerAspGluValLeu 1015  
Db 3101 TGGTCCAGGAGAACTCCGCTGAGATCCGCTGCTGACACCCCGGCGGCGGCGGCGGCGGCGGCGG 3160  
QY 1016 GluMetLysValSerValGlnValAspArgAlaLysIle---HisGlnAspLeuValPhe 1034  
Db 3161 AGCGTCCCATCATCATCAATCAACGCGCGCGCTCACCACCTCGAGTGAAGTAC 3220  
QY 1035 GlnTyrValGluAspProThrIleValArgIleGluProGluTyrSerIleValSerGly 1054  
Db 3221 AACTACACCGAGGAGCCACCATCTCGAGGATCGACCCGAGTGGAGCATCAACAGCGGT 3280  
QY 1055 AsnThrProIleAlaValTyrGlyThrHisLeuAspLeuIleGlnAsnProGlnIleArg 1074  
Db 3281 GGGACCTTCCCTGAGCGGTACAGGCAACCACTGGCGCATGTCCTGTGAACCCCGGATCCGG 3340  
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Db 3341 GCCAAGTATGAGGCAATTGAGAGGGAGAAC---TGCCTGTGTGTAATGACACCAACCATG 3397  
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Db 3398 GTATGCGCGCGCCCTGTGTGGCCAAACCTGTGCGAGCCCGCCAGACAGCTGGGGAGCGG 3457

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Db	3458	CCGGATAGCTGGGCTTCGTCTGGGCAACAGCTGGCTCCCTGCTGTGTGCTCAACTCCACC	3517
Qy	1135	AsnPheThrTyTrProAsnProValPheGluAlaPheGlyProSerGlyIleLeuGlu	1154
Db	3518	TCCTTCTCTACTACCTGACCCCGTACTGGAGCCACTCAGCCCCACTGCGCTGCTGGAG	3577
Qy	1155	LeuLysProGlyThrProIleIleLeuLysGlyLysAsnLeuLeuProProValAlaGly	1174
Db	3578	CTGAAGCCCAAGCTCCCACTCATCTCTCAAGGCGCGGAACCTCTTGGCACCT--GCACCC	3634
Qy	1175	GlyAsnValLysLeuAsnTyThrValLeuValGlyGlyLysProCysThrValThrVal	1194
Db	3635	GGCNACTCCGACTCAACTACACGGTGCTCATCGGCTCCACACCTGTACCTCACCGTG	3694
Qy	1195	SerAspValGlnLeuLeuCysGlySerProAsnLeuIleGlyArgHisLysValMetAla	1214
Db	3695	TCGGAGACGCAACTGCTGTGGAGCGCCCAACCTCACTGGGACGACAAAGGTCACGGTG	3754
Qy	1215	ArgValGlyGlyMetGluTyTrSerProGlyMetValTyTrIleAlaProAspSerProLeu	1234
Db	3755	CGTGCAAGTGGCTTCGAGTTCTCCGAGGACACTGCAGGTGTACTCGGACAGCCTGCTG	3814
Qy	1235	SerLeuProAlaIleValSerIleAlaValAlaGlyLeuLeuIleIlePheIleVal	1254
Db	3815	ACGCTGCTGCCATTGTGGCARTTGGCGAGGCGGGGTCTCTGTGCTGGTCATCGTG	3874
Qy	1255	AlaValLeuIleAlaTyTrLysArgLysSerArgGluSerAspLeuThrLeuLysArgLeu	1274
Db	3875	GCATGTGCTCATCGCTCAACGCGCACTCAAGAGTCTCACCGCACACCTCAAGCGGCTG	3934
Qy	1275	GlnMetGlnMetAspAsnLeuGluSerArgValAlaLeuGluCysLysGluAlaPheAla	1294
Db	3935	CAGCTCCAGATGGACAACCTGGAGTCCCGGTGGCCCTCGAATGCAAGGAAGCTTTGCA	3994
Qy	1295	GluLeuGlnThrAspIleHisGluLeuThrSerAspLeuAspGlyAlaGlyIleProPhe	1314
Db	3995	GAGCTGCAGACAGACATCCACGACTGACCAATGACCTGGACGGTGGCGGCATCCCTTC	4054
Qy	1315	LeuAspTyTrArgThrTyThrMetArgValLeuPheProGlyIleGluAspHisProVal	1334
Db	4055	CTTGACTACCGGACATATGCATCGCGGTGCTCTTCTCGGATCGAGGACACCTTGTC	4114
Qy	1335	LeuArgAspLeuGluValProGlyTyTrArgGlnGluArgValGluLysGlyLeuLysLeu	1354
Db	4115	CTCAAGAGATGGAGGTA-----CAGGCCAATGTGGAGAAGTCGCTGACACTG	4162
Qy	1355	PheAlaGlnLeuIleAsnAsnLysValPheLeuLeuSerPheIleArgThrLeuGluSer	1374
Db	4163	TTGGGCGAGCTGCTGACCAAGACACTTCTGCTGACCTTCACTCCGACGCTGGAGGCA	4222
Qy	1375	GlnArgSerPheSerMetArgAspArgGlyAsnValAlaSerLeuIleMetThrValLeu	1394
Db	4223	CAGCGAGCTTCTCCATGGCGGACCGCGGGAATGTGGCTCGCTCATCATGACGCCCTG	4282
Qy	1395	GlnSerLysLeuGluTyTrAlaThrAspValLeuLysGlnLeuLeuAlaAspLeuIleAsp	1414
Db	4283	CAGGGCGAGATGGAAATACGCCACAGGGGTGTCTAAGCAGCTGCTTTTCCGACCTCATCGAG	4342
Qy	1415	LysAsnLeuGluSerLysAsnHisProLysLeuLeuLeuArgArg---ThrGluSerVal	1433
Db	4343	AAGAACTGGAGACAGAACACCCCAAGCTGTACTTGGCCCGGCCCAACTGAGTCGGTG	4402
Qy	1434	AlaGluLysMetLeuThrAsnTrpPheThrPheLeuLeuTyTrLysPheLeuLysGluCys	1453
Db	4403	GCAGAGAAGATGCTAACTGAATGTGTTCACTTCTTGTATAAGTTCTCTCAAGGAGTGC	4462
Qy	1454	AlaGlyGluProLeuPheSerLeuPheCysAlaIleLysGlnGlnMetGluLysGlyPro	1473
Db	4463	GCTGGGAGCGCTGTTTCATCTGTATGTCGCCCATCAAGCAGCAGATGGAGAGGGCCCC	4522
Qy	1474	IleAspAlaIleThrGlyGluAlaArgTyTrSerLeuSerGluAspLysLeuIleArgGln	1493

4523	Db		ATTGACGCCATCAGGGTGAGGCACGCTACTCCTCGAGTGAGACAAAGCTCATCCGGCAG	4582
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4643	Db		GAGGTCCGGTGGAAGGGGTGGACTGTGACACGGTCACCCAGGCCAAGGAGAAGCTGCTG	4702
1534	Qy	AspAlaIlePheIlyAsnValProCysSerHisArgProIlyAsAlaIleAspMetAspLeu	1553	
4703	Db		GAGCTGCCTACAAAGGGCGTGCCCTACTCCACGCGCCCAAGGCCGGACATGGACCTG	4762
1554	Qy	GlutTrpArgGlnGlySerGlyAlaArgMetIleLeuGlnAspGluAspIleThrThrLys	1573	
4763	Db		GAGTGGCGCCAGGGCGCGCATGGCGCGCATCATCTCTCAGGACGAGACGCTCACCAACAAG	4822
1574	Qy	IleGluAsnAspTrpLysArgLeuAsnThrLeuAlaHisTyrGlnValProAspGlySer	1593	
4823	Db		ATTGACAAAGATTGGAAGAGCTGAACACACTGGCTCATCTACCGAGTGCACAGCGGGTCC	4882
1594	Qy	ValValAlaLeuValSerLysGlnValThrAlaTyrAsnAlaValAsnAsnSerThrVal	1613	
4883	Db		TCGGTGGCATCTGGTCCCAAGCAGACAGCTCGCTCAACAATCTCCAACTCTCTCCACCTTC	4942
1614	Qy	SerArgThrSerAlaSerLysTyrGluAsnMetIleArgTyrThrGlySerProAspSer	1633	
4943	Db		ACCAAG--TCCCTCAGCAGATCAGAGACATCTCTCGCACGGCCAGCGCCCGACAGC	4999
1634	Qy	LeuArgSerArgThrProMetIleThrProAspLeuGluSerGlyValIlysMetTrpHis	1653	
5000	Db		CTCGCTCGCGCAGCCCATGATCACGCCGACCTGGAGAGCGGCACCAAGCTGTGGCAC	5059
1654	Qy	LeuValIlyAsnHisGluHisGlyAspGlnLysGluGlyAspArgGlySerLysMetVal	1673	
5060	Db		CTGGTGAAGAACACACACACACTGGACCGAGCGGGGTGACCGCGCAGCAAGATGGTC	5119
1674	Qy	SerGluIleTyrLeuThrArgLeuLeuAlaThrLys---GlyThrLeuGlnLysPheVal	1692	
5120	Db		TCGGAGATCTACTTGACACGGCTACTGGCCACCAGCAGCGGCACACTGCAGAAAGTTGTG	5179
1693	Qy	AspAspLeuPheGlnThrIlePheSerThrAlaHisArgGlySerAlaLeuProLeuAla	1712	
5180	Db		GAGCAGCTGTTTCAGACCATCTTTCAGCAGCGCACACCGGGGCTCAGCCCTTCGCGCTGCC	5239
1713	Qy	IleLysTyrMetPheAspPheLeuAspGluGlnAlaAspLysHisGlyIleHisAspPro	1732	
5240	Db		ATCAAGTACATGTTTGACTCTCGATGAGCAGCGCGCACCAAGCCAGATCCACGATGCT	5299
1733	Qy	HisValArgHisThrTrpLysSerAsnCys--LeuProLeuArgPheTrpValAsnMet	1751	
5300	Db		GAGCTGGCCACACCTGGAAAGAGCACTGCAGGCTGCCCTCGCGCTCTCGGTGCAACCTG	5359
1752	Qy	IleIlyAsnProGlnPheValPheAspIleHisIlyAsnSerIleThrAspAlaCysLeu	1771	
5360	Db		ATCAAGAACCACAGTTTGTTCGACATTCACAAAGAACAGCATCAGGACGCGCTGCTTG	5419
1772	Qy	SerValValAlaGlnThrPheMetAspSerCysSerThrSerGluHisArgLeuGlyLys	1791	
5420	Db		TCGGTGGTGGCCAGACCTTCATGGACTCTGCTGCCCTCTGAGCACAAGCTGGGCAAG	5479
1792	Qy	AspSerProSerAsnIlyLeuLeuTyrAlaLysAspIleProSerTyrLysAsnTrpVal	1811	
5480	Db		GACTCACCTCCAAACAGCTGCTTACGCCAAGGACATCCCAACTACAAGATCGGGTGGT	5539
1812	Qy	Glu--ArgTyrTyrSerAspIleGlyLysMetProAlaIleSerAspGlnAspMetAsn	1830	
5540	Db		GAGAGGAGGTACTATGCAGACATCGCAAGATGCCAGCCATCAGCGACACGACATGAGT	5599
1831	Qy	AlaTyrLeuAlaGluGlnSerArgMetHisMetAsnGluPheAsnThrMetSerAlaLeu	1850	

Db 5600 GCCTATCTGGCTGAGCAGTCCCGCTGACCTGACCGAGTTCAACAGCATGAGCGCCTTG 5659  
Qy 1851 SerGluIlePheSerTyrValGlyLysTyrSerGluVal-----IleLeuGlyProLeu 1868  
Db 5660 CACGAGATCTACTCTTACATCAACCAAGTACAAGAGTGAAGTGCAGATCTGCGACCCCTG 5719  
Qy 1869 AspHisAspAspGlnCysGlyLysGlnLysLeuAlaTyrLysLeuGluGlnValIleThr 1888  
Db 5720 GAGAAAGATGAGCAGCGCGCGCGCGCGCTGCGGAGCAGCTGAGCAGAGTGTGTGAC 5779  
Qy 1889 LeuMetSerLeuAspSer 1894  
Db 5780 ACGATGGCCCTGAGCAGC 5797

RESULT 7

US-09-964-824A-313  
; Sequence 313, Application US/09964824A  
; Patent No. US20020102531A1  
; GENERAL INFORMATION:  
; APPLICANT: Horrigan, Stephen  
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu  
; TITLE OF INVENTION: Seqs  
; FILE REFERENCE: 689290-73  
; CURRENT APPLICATION NUMBER: US/09/964,824A  
; PRIOR FILING DATE: 2001-09-27  
; PRIOR APPLICATION NUMBER: US/60/236,033  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,032  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: US/60/236,028  
; PRIOR FILING DATE: 2000-09-28  
; NUMBER OF SEQ ID NOS: 583  
; SOFTWARE: Patent in version 3.0  
; SEQ ID NO 313  
; LENGTH: 6252  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-964-824A-313

Alignment Scores:

Pred. No.: 3,08e-269 Length: 6252  
Score: 2580.00 Matches: 654  
Percent Similarity: 50.63% Conservative: 344  
Best Local Similarity: 33.18% Mismatches: 713  
Query Match: 25.83% Indels: 260  
DB: 9 Gaps: 61

US-09-964-956-13 (1-1896) x US-09-964-824A-313 (1-6252)

Qy 24 ThrLeuLeuThrArgGlnProAlaProLeuSerGlnLysGlnArgSerPheValThrPhe 43  
Db 35 ACCCTGCTGGCTGTGCGCGAGGTGCCAGCTGAGCGCCCGCAAGCTGACTCTCTTC 94  
Qy 44 ArgGlyGluProAlaGluGlyPheAsnHisLeuValValAspGluArgThrGlyHisIle 63  
Db 95 CGCAGCGAG-----AAAGAGCTGAACCACTGGCTGTGGATGAGGCTCAGCGGTGTG 148  
Qy 64 TyrLeuGlyAlaValAsnArgIleTyrLysLeuSerSerAspLeuLysValLeuValThr 83  
Db 149 TACTTGGGGCGGTGAATGCCCTCTACAGCTGGATGCCAGCTGCAGCTGAGCGAGCAG 208  
Qy 84 HisGluThrGlyProAspGluAspAsnProLysCysTyrProProArgIleValGlnThr 103  
Db 209 GTGCGCCACGGCG 268  
Qy 104 CysAsnGluProLeuThrThrThrAsnAsnValAsnLysMetLeuLeuLeuAspTyrLys 123  
Db 269 TGGCATAG---GCTGAGATGATGCAATGTCAACAGCTGTGTGTGTGTGTGTGTGTGT 325  
Qy 124 GluAsnArgLeuIleAlaCysGlySerLeuTyrGlnGlyIleCysLysLeuLeuArgLeu 143  
Db 326 AGGAAGCGCTGT 385

Qy 144 GluAsp-----LeuPheLysLeuGlyGluProTyrHisLysLysGluHisTyrLeuSer 161  
Db 386 AGCAACATCTCCCTCCGCTGTTCTACGAGGACGGCAGCGCGGGAGAGTCTTTCGTGGCC 445  
Qy 162 GlyValAsnGluSerGlySerValPheGlyValIleValSerTyrSerAsnLeuAspAsp 181  
Db 446 AGCAATCATGAGGGCGTGGCCACAGTGGGCTGTGAGCTCCACGGGTCTGTGTGTGTGAC 505  
Qy 182 LysLeuPheIleAlaThrAlaValAspGlyLysProGluTyrPheProThrIleSerSer 201  
Db 506 CGCGTGTGTGTGTGGCAAGCAATGGGCCACACGACCAACGGCATCATCGTGAGCAGCT 565  
Qy 202 ArgLysLeuThrLysAsnSerGluAlaAspGlyMetPheAlaTyrValPheHisAspGlu 221  
Db 566 CGGCTGTGTGGACCGGACTGACAGCGGAGGCGCTTGAAGCCTTACAGGACCGCCACC 625  
Qy 222 PheValAlaSerMetIleLysIleProSerAspThrPheThrIleIleProAspPheAsp 241  
Db 626 TACAAGCGCGGCTACTGTCTCCACCAACACACACACAGCTTC-----664  
Qy 242 IleTyrTyrValTyrGlyPheSerSerGlyAsnPheValTyrPheLeuThrLeuGlnPro 261  
Db 665 -----GTGGCGGCTTCGAGGCGGCGCTACGTCTCTTGTCTTCAACACGAG 715  
Qy 262 GluMetValSerProGlySerThrThrLysGluGlnValTyrThrSerLysLeuVal 281  
Db 716 GACAAG---CACCGCGCGCGGAAACCGCAGC-----CTGCTGGCA 751  
Qy 282 ArgLeuCysLysGluAspThrAlaPheAsnSerTyrValGluValProIleGlyCysGlu 301  
Db 752 CGCATGTGAGAGAGACCCCACTACTCTCTACTGAGATGGACCTGCGCTGCGCGG 811  
Qy 302 ArgSerGlyValGluTyrArgLeuLeuGlnAlaTyrLeuSerLysAlaGlyAlaVal 321  
Db 812 GACCCGACATCCAC-----GCCGCTGCCTTT-----GGCACCTGC 847  
Qy 322 LeuGlyArgThrLeuGlyValHisProAspAspLeuLeuPheThrValPheSerLys 341  
Db 848 CTGGCGGCTCCGTGGCTGCGCTCTGGAGGTGCTATATGCTGCTTCTTCAGCAGA 907  
Qy 342 GlyGlnLysArgLysMetLysSerLeuAspGluSerAlaLeuCysIlePheIleLeuLys 361  
Db 908 GACAGC-----CGAGCAGTGGGGCGCGGCTCTGCTGCTGCTGCTGCTGCTGCTG 961  
Qy 362 GlnIleAsnAspArgIleLysGluArgLeuGlnSerCysTyrArgGlyGluGlyThrLeu 381  
Db 962 AAGGTGCACGCCAAGATGGAGGCCAACCGCAACGCTGTGTAC-----ACAGGACCGCG 1015  
Qy 382 AspLeuAlaTrpLeuLysValLys-----AspIleProCysSerSerAlaLeu 397  
Db 1016 GAGCGCGTGACATCTTCTACAGCCCTTCCACGGCATATCCAGTGGCGGCGCGCGCG 1075  
Qy 398 LeuThrIleAspAspAsnPhe---CysGlyLeuAsp---MetAsnAlaProLeuGlyVal 415  
Db 1076 CCGGCTCCACAGAGCTTCCCATGTGGCTCGAGCACCTGCGCTACCGCTCGGCGAGC 1135  
Qy 416 SerAspMetValArgGlyIleProValPheThrGluAspArgAspArgMetThrSerVal 435  
Db 1136 CGCGACGGCTCAGAGGCACAGCGTGTGCGAGCGTGGAGCGCTGAACCTCAGCGCGTG 1195  
Qy 436 IleAlaTyrValTyrLysAsnHisSerLeuAlaPheValGlyThrLysSerGlyLysLeu 455  
Db 1196 ACGTGTGGCGCGGAGAACACACACACTGTGCTTCTGGGACCTCTGATGGCGCGATC 1255  
Qy 456 LysLysIleArgValAspGlyProArgGlyAsnAlaLeuGlnTyrGluThrValGlnVal 475  
Db 1256 CTCAGGTGACCTTACC---CCAGATGGACCTCTCTCAGAGTACGACTCTATCTGTG 1312  
Qy 476 ValAspProGlyProValLeuArgAspMetAlaPheSerLysAspHisGluGlnLeuTyr 495  
Db 1313 GAGATAAACAGAGAGTCAAGCGGACCTGTGTACTGTCTGTGAGACCTGGGCGAGCTGTAC 1372  
Qy 496 IleMetSerGluArgGlnLeuThrArgValProValGluSerCysGlyGlnTyrGlnSer 515

[illegible]



1176	QY	AsnValIysLeuAsnTyrThrVal-----LeuValGlyGluIysProCys	1190
3362	Db	AACTCTGAACAGCGCATGACGCTGCGAGAGCGCGAGGCTTCGTGGTCCGACGCGCTGC	3421
1191	QY	ThrVal---ThrValSerAspValGlnLeuLeuCysGluSerProAsnLeuIleGlyArg	1209
3422	Db	ACCATGAAGACGCTGACGGAGACCGACCTGTACTGTGAGCCCCCGAGGTGCAGCCCCG	3481
1210	QY	HisLys-----ValMetAlaArgVal	1216
3482	Db	CCCAAGCGCGCAGAAAACGAGACACACACAACTGCCGAGTTCAATTGGAAGTTC	3541
1217	QY	GlyGlyMetGluTyrSerProGlyMetValTyrIle-----AlaProAspSerPro	1233
3542	Db	GGCTCTCGCGAGTGGGTCTGGCGCGGTGGAGTACGACACACCGGTGAGCGACGTGCCG	3601
1234	QY	LeuSerLeu-----ProAlaIleValSerIleAlaValAlaGly	1246
3602	Db	CTCAGCTCATCTTTCGGCTGGTCACTGTCGCCCATGTGTGCTCATCGCGGTCT---	3658
1247	QY	GlyLeuLeuIleIlePheIleValAlaValLeuIleAlaTyrIysArgIysSerArgGlu	1266
3659	Db	-----GTCTACTGCTACTGGAGGAAGACCAGCAG	3688
1267	QY	SerAspLeuThrLeuIysArgLeuGlnMetGlnMetAspAsnLeuGluSerArgValAla	1286
3689	Db	GCCGAACGAGATATGAGAAGATCAAGTCCCACTGAGGCGCTGGAGGAGCGGTGCCG	3748
1287	QY	LeuGluCysIysGlnAlaPheAlaGluLeuGlnThrAspIleHisGluLeuThrSerAsp	1306
3749	Db	GACCGCTGCAAGAAGGAATTCACAGACCTGATCGAGATGAGGACCAACCAACGAC	3808
1307	QY	LeuAspGlyAlaGlyIleProPheLeuAspTyrArgThrTyrThrMetArgValLeuPhe	1326
3809	Db	GTGCACGAGCCGGCATCCCGTGTGGACTCAAGACCTACACCGACCGGTCTTCTTC	3868
1327	QY	-----ProGlyIleGluAspHisProValLeuArgAspLeuGluValProGly	1342
3869	Db	CTGCCCTCCAAAGACGCGCAAGAGCGTGTATCATCCGCGCAAGCTGGACATCCCTGAG	3928
1343	QY	TyrArgGlnGluArgValGluIysGlyLeuIysLeuPheAlaGlnLeuIleAsnLys	1362
3929	Db	CCGCGCGCGCGGTGGTGGAGAGCGCCCTCTACAGTTCTCCAACTGCTGAACAGCAAG	3988
1363	QY	ValPheLeuLeuSerPheIleArgThrLeuGluSerGlnArgSerPheSerMetArgAsp	1382
3989	Db	TCCTTCTCATCAATTCATCCACACCTCGAGAACCCAGCGGAGTCTCGGCCCGGCC	4048
1383	QY	ArgGlyAsnValAlaSerLeuIleMetThrValLeuGlnSerLysLeuGluTyrAlaThr	1402
4049	Db	AAGTCTACTTCCGCTCCCTGCTGACCGTGGCGCTGCACCGGAACCTGGAGTACTACAG	4108
1403	QY	AspValLeuIysGlnLeuLeuAlaAspLeuIleAspLysAsnLeuGluSerLysAsnHis	1422
4109	Db	GACATCATGCACGCTCTCTCTCGAGCTCTCGAGCAGTACGTGTCGGCCAAAGAAC---	4165
1423	QY	ProLysLeuLeuLeuArgArgThrGluSerValAlaGluIysMetLeuThrAsnTyrPhe	1442
4166	Db	CCCAAGCTGATGCTGCCAGGTCTGAGACTGTGGTGGAGAGATGCTGTCCAACTGATG	4225
1443	QY	ThrPheLeuLeuTyrIysPheLeuIysGluCysAlaGlyGluProLeuPheSerLeuPhe	1462
4226	Db	TCCATCTGCGCTGTACCAAGTACTTCAAGGACAGTCCCGGAGCGCCCTGTACAAGCTTCT	4285
1463	QY	CysAlaIleIysGlnGlnMetGluIysGlyProIleAspAlaIleThrGlyGluAlaArg	1482
4286	Db	AAGCCCATCAACATCAGGTGGGAAGAGGCCCGGTGGTGGTACAGAAAGAGGCCAAG	4345
1483	QY	TyrSerLeuSerGluAspLysLeuIleArgGlnGlnIleAspTyrIysThrLeuValLeu	1502
4346	Db	TACACTCTCAACACACGGGCGTCTCGGGGATCATGTGGAGTACGCACCCCTGACGGTG	4405



Db 5399 TACACGAGAGTACTATGACGAGATCATCAATGCTTGGAGGAGTCTCTGCGCCAG 5458  
Qy 1876 LysGlnLysLeuAlaTyrLysLeuGlnVal 1886  
Db 5459 AAGATGAGTGGCTTCCGCTGCAGAGATT 5491

RESULT 8

US-09-930-213-254  
; Sequence 254, Application US/09930213  
; Publication No. US20030170625A1  
; GENERAL INFORMATION:  
; APPLICANT: ROSENTHAL, ANDRE  
; APPLICANT: HINZMANN, BERND  
; APPLICANT: SCHAFFER, REINHARD  
; APPLICANT: ZUBER, JOHANNES  
; APPLICANT: TCHER-NITSE, OLEG  
; APPLICANT: GRIPS, MARTIN  
; APPLICANT: HELNEGEL, MARTIN  
; APPLICANT: SCHMITZ, ANNE-CHANTAL  
; APPLICANT: SERS, CHRISTINE  
; TITLE OF INVENTION: DETECTION OF DIFFERENTIAL GENE EXPRESSIONS  
; FILE REFERENCE: ALBRE-14  
; CURRENT APPLICATION NUMBER: US/09/930,213  
; CURRENT FILING DATE: 2001-01-31  
; PRIOR APPLICATION NUMBER: DE 10004102.7  
; PRIOR FILING DATE: 2000-01-31  
; NUMBER OF SEQ ID NOS: 885  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 254  
; LENGTH: 6252  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-930-213-254

Alignment Scores:  
Pred. No.: 3,086-269 Length: 6252  
Score: 2580.00 Matches: 654  
Percent Similarity: 50.63% Conservative: 344  
Best Local Similarity: 33.18% Mismatches: 713  
Query Match: 25.83% Indels: 260  
DB: 10 Gaps: 61

US-09-964-956-13 (1-1896) x US-09-930-213-254 (1-6252)

Qy 24 ThrLeuLeuThrArgGlnProAlaProLeuSerGlnLysGlnArgSerPheValThrPhe 43  
Db 35 ACCCTGCTGGCCTGCTGGGCGCAGGTGCCAGCCTGAGCCCGCCGCAAGCTGGACTTCTTC 94  
Qy 44 ArgGlyGluProAlaGluGlyPheAsnHisLeuValValAspGluArgThrGlyHisIle 63  
Db 95 CGCAGCGAG-----AAGAGCTGNAACCACTGGCTGGATGAGGCTCAGGCGTGGTG 148  
Qy 64 TyrLeuGlyAlaValAsnArgIleTyrLysLeuSerSerAspLeuLysValLeuValThr 83  
Db 149 TACCTGGGGGGGTGAATGCCCTCTACCAGCTGGATGGAGTGGCAAGCTGCAGCTGGAGCAGCAG 208  
Qy 84 HisGluThrGlyProAspGluAspAsnProLysCysTyrProProArgIleValGlnThr 103  
Db 209 GTGGCCAGCGGGCCCGCCCTGGACAAAGAGTGCAGCCGCCCTCATCGAGCCAGCCAG 268  
Qy 104 CysAsnGluProLeuThrThrThrAsnAsnValAsnLysMetLeuLeuIleAspTyrLys 123  
Db 269 TGCCATGAG---GCTGAGATGACTGACAATGTCACACAGCTGCTGCTGCTGCTGCTGCTGCTG 325  
Qy 124 GluAsnArgLeuIleAlaCysGlySerLeuTyrGlnGlyIleCysLysLeuLeuArgLeu 143  
Db 326 AGGAAGCGCCTGGTGGAGTGGCGAGCCCTCTTCAAGGGGATCTGCGCTCTGCGGCCCTG 385  
Qy 144 GluAsp-----LeuPheLysLeuGlyGluProTyrHisLysLysGluHisTyrLeuSer 161  
Db 386 AGCAACATCTCCCTCGCCTGTTCTACGAGGAGCAGCGGGGAGAAAGTCTTCTGCGGCC 445

Qy 162 GlyValAsnGluSerGlySerValPheGlyValIleValSerTyrSerAsnLeuAspAsp 181  
Db 446 ACAATGATGAGGGCGTGGCCACAGTGGGCTGGTGGAGCTCCACGGTCTCTGGTGGTAC 505  
Qy 182 LysLeuPheIleAlaThrAlaValAspGlyLysProGluTyrPheProThrIleSerSer 201  
Db 506 CGCGTCTGCTTTGTGGGCAAGGCAATGGGCCACACGACGCGCATCATCGTGGCACT 565  
Qy 202 ArgLysLeuThrLysAsnSerGluAlaAspGlyMetPheAlaTyrValPheHisAspGlu 221  
Db 566 CGGCTGTTGGACCGACTGACAGCAGGAGGCGCTTGAAGCTACACGACACCGCCACC 625  
Qy 222 PheValAlaSerMetIleLysIleProSerAspThrPheThrIleIleProAspPheAsp 241  
Db 626 TACAAGGCGCGCTACCTGTCCACCAACACACAGCAGTTTC----- 664  
Qy 242 IleTyrTyrValTyrGlyPheSerSerGlyAsnPheValTyrPheLeuThrLeuGlnPro 261  
Db 665 -----GTGGCGGCTTCAGAGCGCCCTAGCTCTTCTTGTCTTCAACAGCAG 715  
Qy 262 GluMetValSerProGlySerThrThrLysGluGlnValTyrThrSerLysLeuVal 281  
Db 716 GACAAG---CACCGCGCCCGGAACCGCAG-----CTGTGGCA 751  
Qy 282 ArgLeuCysLysGluAspThrAlaPheAsnSerTyrValGluValProIleGlyCysGlu 301  
Db 752 CGCATGTGCAGAGAACCCCACTACTCTCTACCTGGAGATGAGCTGAGTGGCGG 811  
Qy 302 ArgSerGlyValGluTyrArgLeuLeuGlnAlaLysLeuSerLysAlaGlyAlaVal 321  
Db 812 GACCCGCGACATCCAC-----GCCGCTGCTTT-----GCCACCTGC 847  
Qy 322 LeuGlyArgThrLeuGlyValHisProAspAspLeuLeuPheThrValPheSerLys 341  
Db 848 CTGGCGCCTCGCTGGCTGGCTGGCTGGAGGGTGTATATGTGTCTCTACAGAGA 907  
Qy 342 GlyGlnLysArgLysMetLysSerLeuAspGluSerAlaLeuCysIlePheIleLeuLys 361  
Db 908 GACAGC-----CGAGCAGTGGGGCGCGCTGGCGCTCTGCTGTCTCCGCTGAC 961  
Qy 362 GlnIleAsnAspArgIleLysGluArgLeuGlnSerCysTyrArgGlyGluGlyThrLeu 381  
Db 962 AAGGTGCAGCCCAAGATGGGCCAACCGCAACGCTGTATAC-----ACAGGACCCCG 1015  
Qy 382 AspLeuAlaThrLeuLysValLys-----AspIleProCysSerSerAlaLeu 397  
Db 1016 GAGCGCGTGACATCTTCTACAGCCCTTCCAGCGGATATCCAGTGGCGGCGCCAGCG 1075  
Qy 398 LeuThrIleAspAspAsnPhe---CysGlyLeuAsp---MetAsnAlaProLeuGlyVal 415  
Db 1076 CGCGGCTCCAGCAAGAGCTTCCATGTGGCTGGAGCACCTGCTCCCTACCGCTGGCGAC 1135  
Qy 416 SerAspMetValArgGlyIleProValPheThrGluAspArgAspArgMetThrSerVal 435  
Db 1136 CGGACGGGCTCAGAGGCGACAGCCGCTGCTGGAGGCGCTGAGCTGAGCTGAGCGCGTG 1195  
Qy 436 IleAlaTyrValTyrLysAsnHisSerLeuAlaPheValGlyThrLysSerGlyLysLeu 455  
Db 1196 ACGGTGCGCGCCGAGAACCAACACACTGTGTCTTCTTGGCACCTCTGATGCGCGATC 1255  
Qy 456 LysLysIleArgValAspGlyProArgGlyAsnAlaLeuGlnTyrGluThrValGlnVal 475  
Db 1256 CTCAGGTGTACCTCACC---CCAGATGGCACCTCTCAGAGTACACTCTATCTCTGTG 1312  
Qy 476 ValAspProGlyProValLeuArgAspMetAlaPheSerLysAspHisGluGlnLeuTyr 495  
Db 1313 GAGATAACAGAGAGTCAAGCGGACCTGGTACTCTCTGGAGACCTGGCGACCTGTAC 1372  
Qy 496 IleMetSerGluArgGlnLeuThrArgValProValGluSerCysGlyGlnTyrGlnSer 515  
Db 1373 GCCATGCCAGGACAGAGTGTTCGGCTGCGCGTGCAGAGTGCCTGAGTACCGAC 1432  
Qy 516 CysGlyGluCysLeuGlySerGlyAspProHisCysGlyTyrCysValLeuHisAsnThr 535

Db	1433	TCACCCAGTGGCGGACTCCAGGACCCCTACTCGGCTGGTGGTGGAGGACGA	1492	Db	2399	ACCTCCAGTGGCGGCGGCTCATCCAGGATCCAGCCCTGAGAGCGGCCCTGGGT	2458
Qy	536	CysThrArgLysGluArgCysGluArgSerLysGluProArgArgPheAla---SerGlu	554	Qy	872	GlyGlyThrLysValThrLysArgGlyGluLeuLeuGlyLeuLysPheArgPheAla	891
Db	1493	TCACCCGGAAGCCGAGTGTCCGGCGGCGAGGAGCCAGCCACTGGCTGTGAGCCGA	1552	Db	2459	GGGGGATCCGATACCATCTCGGGGTCAATTTGGGGTCCACAGCAGGGACATC---	2515
Qy	555	MetLysGlnCysValArgLeuThr---ValHisProAsnAsnIleSer---ValSerGln	572	Qy	892	SerHisValLysValAlaGlyValGluCysSerProLeuValAspGlyTyrIleProAla	911
Db	1553	AGCAAGTGTGGTGGCGGTCAACAGCGCCAGCCACAGAACATGAGCGCGGCGCCAG	1612	Db	2516	CAGAGATCTCTGTGGCGCGGAACTGCTCTTTTCAGCCGGAACGTTACTCCGTGTCC	2575
Qy	573	TyrAsnValLeuLeuValLeuGluThrTyrAsnValProGluLeuSerAla-----Gly	590	Qy	912	GluGlnIleValCysGluMetGlyGluAlaLysProSerGlnHisAlaGlyPheValGlu	931
Db	1613	GGGGAGGTGCAGCTACCGTACGCCCC-----CTCCCTGGCTGAGGAGAGACGAG	1666	Db	2576	ACCGGATGTGTGTGTATC---GAGGCTGGGAGAGCCCTTTCACGGGGGTGTGAG	2632
Qy	591	ValAsnCysThrPheGluAspLeuSerGluMetAspGlyLeuValValGlyAsnGlnIle	610	Qy	932	IleCysValAlaValCysArgProGluPhe-----MetAlaArgSerSer	946
Db	1667	TTGCTGTGCTTTTGGGAGTGGCGGCGCACACCCCGCGCGTGGAGGGCGAGCCGTC	1726	Db	2633	GTGAGCGTC-----TTCCGGAACCTGGCGCTTCCGCTCCCAATGTC	2674
Qy	611	GlnCysTyrSerProAlaAlaLysGluValProArgIleIleThrGluAsnGly---Asp	629	Qy	947	GlnLeuTyrTyrPheMetThrLeuThrLeuSerAspLeuLysProSerArgGlyProMet	966
Db	1727	ATCTGAACTCCCAAGAGC-----ATCCCC-----GTACACCCCGGCGGAGGAC	1774	Db	2675	CAGTTCACCTTCCAAAGCCCAAGCCCTCTCAGT---GTGGAGCCGAGGAGGACGAG	2731
Qy	630	HisHisValValGlnLeuLysSerLysGluThrGlyMetThrPheAlaSerThr	649	Qy	967	SerGlyGlyThrGlnValThrIleThrGlyThrAsnLeuAsnAlaGlySerAsnVal	986
Db	1775	CAGTGGCGGTGACCATCCAGCTCTCTTAGACGAGGACACATCTTCTCCAGCTCTAC	1834	Db	2732	CGGGCGGACCACTACCATCCAGCGCACCCACTGGACACGGGCTCCCGAGGAGAC	2791
Qy	650	SerPheValPheTyrAsnCysSerValHisAsnSer-----CysLeu	663	Qy	987	ValMetPheGlyLysGlnProCysLeuPheHisArgSerProSerTyrIleValCys	1006
Db	1835	CAGTACCCCTTCTAGACTCGCGCCAGCCAGCAGCGTGGAGGAACTCCCGTGGCATC	1894	Db	2792	GTG-----CGGGTACCCCTCAACCGCGTCCCGTGT	2821
Qy	664	SerCysValGluSerProTyrArgCysHisTyrCysLysTyrArgHisValCysThrHis	683	Qy	1007	AsnThrThrSerSerAspGluValLeuGluMetLysValSerValGlnValAspArgAla	1026
Db	1895	TCCTCGTGAGCAACCGCTGGACTGCTGAGTGGACCTGCTACACAGTGGCGGAG	1954	Db	2822	AAAGTCAGCAAGTTTGGGGCGGAGCTCCAGTGTGTCTACCTGGCCCCCAGCGACGGGC	2881
Qy	684	---AspProLysThrCysSerPheGlnGluGly-----ArgValLysLeuProGluAsp	700	Qy	1027	LysIle-----HisGlnAspLeuValPhe	1034
Db	1955	GCTTCGCCCAACCCCT-----GAGGACGGCATGCTCCGTGCCACATGGAGGACAGC	2005	Db	2882	CAGATCTTCTGGAGTCTCTACTAGGGGGTCCCCCGTCCCAACCCCGGCATCTTCTTC	2941
Qy	701	CysProGlnLeuLeuArgValAspLysIleLeuValProValGluValIleLysProIle	720	Qy	1035	GlnTyrValGluAspProThrIleValArgIleGluProGluTyrSerIleValSerGly	1054
Db	2006	TGTCCCGATCTCTGGACCCAGCCCTGCTGATCCCATGACACCGACAGAGATGTG	2065	Db	2942	ACCTACCGGAACCCCGTACTGCGAGCTTCGAGCCCTACGAGCTTGGCAGTGTGT	3001
Qy	721	ThrLeuLysAlaLysAsnLeuProGlnProGlnSerGlyGlnArgGlyTyrGluCysIle	740	Qy	1055	AsnThrProIleAlaValTrpGlyThrHisLeuAspLeuIleGlnAsnProGlnIleArg	1074
Db	2066	AACITCCAGGGCAAGAACTGGAC-----	2089	Db	3002	GGCGGAGCATCAACGTACGGGTACGGGTTCAGGCTTCAGCTCATCCAGAGTTTGCATG---	3058
Qy	741	LeuAsnIleGlnGlySerGluGlnArgValProAla-----LeuArgPheAsnSerSer	758	Qy	1075	AlaLysHisGlyGlyLysGluHisIleAsnIleCysGluValLeuAsnAlaThrGluMet	1094
Db	2090	---ACGGTGAAGGTTCTCCCTGCAGTGGCGAGTACTTGTCTCAAGTTATGGAGCCG	2146	Db	3059	-----GTGGTATCGGGAGCCCTGAGTCTGGGAGCCG	3094
Qy	759	SerValGlnCysGlnAsnThrSerTyrSerTyrGluGlyMetGluIleAsnAsn-----	776	Qy	1095	ThrCysGlnAla-----ProAlaLeuAlaLeuGlyProAspHis-----	1107
Db	2147	GTGACCATGCAAGAACTGGGACCTTCGCTTGGACCCCAAGCTGTCCACGATGCC	2206	Db	3095	CGCGGAGGCTGAATCCCTCGAGCCCATGACGGTGGTGGGTACAGACTACGTGTTCAC	3154
Qy	777	-----LeuProValGluLeuThrValTrpAsnGlyHisPheAsnIleAspAsn	793	Qy	1108	-----GlnSerAspLeuThrGluArgProGluPheGly	1119
Db	2207	AACGAGAGCTGCCCTGCAGCTCTACCTCAAGTCTTACGGCAAG---AATATCGAC---	2260	Db	3155	AATGACCAAGGTCTCTTCTGTCCTCCCGGTGCTGCTGAGGAGCCAGAGGCTTACAAC	3214
Qy	794	ProAlaGlnAsnLysValHis-----LeuTyrLysCysGlyAlaMetArgGluSerCys	811	Qy	1120	PheIle-----LeuAspAsnValGlnSerLeuIleLeuAsnLysThrAsn	1135
Db	2261	-----AGCAAGCTCATGTGACCTCTACACTGCTCTCTTGGCGGAGGACTGC	2311	Db	3215	CTCAGCGTGTGATCAGATGAGCGGACCCGCTGCTCAGAACAGAGCGCGGGCC	3274
Qy	812	GlyLeuLysLeuLysAlaAspProAspPheAlaCysGlyTyrCysGlnGlyProGlyGln	831	Qy	1136	PheThrTyrTyrProAsnProValPheGluAlaPheGlyProSerGlyIleLeuGluLeu	1155
Db	2312	AGCTGTGCGCGCGCTAAACCCGACTACAGGTGTGCTGCTGGCGGGCGCAGAGCAGG	2371	Db	3275	TTGAGTACGTGCTGACCCACCTTTGAGAACTTC-----	3310
Qy	832	CysThrLeuArgGlnHisCysProAlaGlnGluSerGlnTrpLeuGluLeuSerGlyAla	851	Qy	1156	LysProGlyThrProIleLeuLysGlyLysAsnLeuIleProProValAlaGlyGly	1175
Db	2372	TGCGGTATAGGCCCTGTGC-----	2398	Db	3311	-----ACAGGTGGCTCAAGAGAGGCTCACAGCTCATCCACCGCGGGGACCC	3361
Qy	852	LysSerLysCysThrAsnProArgIleThrGluIleIleProValThrGlyProArgGlu	871	Qy	1176	AsnValLysLeuAsnTyrThrVal-----LeuValGlyGluLysProCys	1190
				Db	3362	AATCTGAACAGGCGATGAGCTGTGAGGAGCGGCGGCTTCTGTGGTCCGAGGCTGC	3421

[illegible]

[illegible]

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4654 GGGGAGGTGAGCTGACCTGACCGTACGCCCC-----CTCCCTGCCCTGAGCGAGGAGCAGA 4601  
590 yValAsnCysThrPheGluAspLeuSerGluMetAspGlyLeuValValGlyAsnGlnI 610  
4600 GTTCTGCTGCTTTTGGGAGTGGCGCGCCAGCACACCGCGCGCGCTGGAGGCGGCGCT 4541  
610 eGlnCysTyrSerProAlaAlaLysGluValProArgIleThrGluAsnGly---As 629  
4540 CATCTGCAACTCCCAAGCAGC-----ATCCCC-----GTCAACCGCCAGGCCAGGA 4493  
629 pHisHisValValGlnLeuGlnLeuLysSerLysGluThrGlyMetThrPheAlaSerTh 649  
4492 CCAGTGGCGCTGACCATCCAGCTCCCTCTTAGACGAGGAACATCTTCTCAGCTCCTA 4433  
649 rSerPheValPheTyrAsnCysSerValHisAsnSer-----CysLe 663  
4432 CCACTACCTCTTACGACTCCGCCAGGCCATGAGCTGGAGAGAACCTGCGGTGCAT 4373  
663 uSerCysValGluSerProTyrArgCysHisTTPCysLysTyrArgHisValCysThrHi 683  
4372 CTCCTGGTGAGCAACCGCTGACCTGCCAGTGGGACCTGGCTTACCAAGTGGCGGA 4313  
683 s---AspProLysThrCysSerPheGlnGluGly-----ArgValLysLeuProGluAs 700  
4312 GGCTTCCGCCAACCCCT-----GAGGAGCGGATCGCTCGTCCACATGAGGAGCAG 4262  
700 pCysProGlnLeuLeuArgValAspLysIleLeuValProValGluValIleLysProII 720  
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4201 GAACCTCCAGGCGAAGAACTGGAC-----4177  
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4120 GGTGACCATGAGGAATCTGGGACCTTGGCCCTTTCGGACCCCAAGCTGCCACGATGC 4061  
777 -----LeuProValGluLeuThrValValTyrAsnGlyHisPheAsnIleAspAs 793  
4060 CAACGAGACGCTGCCCTTGCACTTTAGCTCAAGTCTTACGGCAAG---AATATCGAC-- 4006  
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4005 ---AGCAAGCTCCATGTGACCTCTACGACTGCTCTTGGCCGCGACGACTG 3956  
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831 nCysThrLeuArgGlnHisCysProAlaGlnGluSerGlnTrpLeuGluLeuSerGlyAl 851  
3895 GTGCGTGTATGAGGCCCTGTGC-----AACAC 3869  
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3868 CACCTCCAGTGGCCCGCGCGCTCATCAGGAGTCCAGCTCAGAGCGGGCCCTCGGG 3809  
871 uGlyGlyThrLysValThrIleArgGlyGluAsnLeuGlyLeuPheArgAspIleAl 891  
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3750 -CAGAGGATCTGTGGCGCGCGGAACTGTCTCTTTTTCAGCGCGGAACGTTACTCCGTGTC 3692

911 aGluGlnIleValCysGluMetGlyGluAlaLysProSerGlnHisAlaGlyPheValGI 931  
3691 CACCGGATCGTGTGTGTATC---GAGCTGGGAGAGCGCTTTTTCAGGGGGGTGTCCA 3635  
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3634 GTTGACGTC-----TTGGGAAACTTGGCGCTTGCCTCCCAATGT 3593  
947 -GlnLeuTyrTyrPheMetThrLeuSerAspLeuLysProSerArgGlyProMe 966  
3592 CCAGTTCACTTCCAAACGCCCAAGCTCTCAGT---GTGGAGCCGACAGCGGACCGCA 3536  
966 tSerGlyThrGlnValThrIleThrGlyThrAsnLeuAsnAlaGlySerAsnValVa 986  
3535 GCGCGGCGCACCACTGACCATCCAGCGCACCCCTCGACACGGGTCTCCAGAGGA 3476  
986 lValMetPheGlyLysGlnProCysLeuPheHisArgArgSerProSerTyrIleValCy 1006  
3475 CQTG-----CGGTGACCTCAACGGCGTCCGCTG 3446  
1006 sAsnThrThrSerSerAspGluValLeuGluMetLysValSerValGlnValAspArgAl 1026  
3445 TAAAGTGACGAAGTTTGGGGCGCAGCTCCAGTGTGTCTCTGGCCCCCAGCGACACGGGG 3386  
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3385 CAGATGCTTCTGGAGTCTCTCAGGGGGTCCCCCTGCGCCCAACCCCGCATCTTCTT 3326  
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3172 GCGCGGGAGGTGAATCCCTGACGCCATGACGCTGGTGGTACAGTACTAGTGTCCA 3113  
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3112 CAATGACACCAAGTCTCTCTGCTCCCGCTGCTGCTGAGGAGCCAGAGCCCTACAA 3053  
1119 yPheIle-----LeuAspAsnValGlnSerLeuLeuIleLeuAsnLysThrAs 1135  
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2992 CTTGAGTACGTGCTGACCCACCTTTGAGAACTTC----- 2956  
1155 uLysProGlyThrProIleLeuLysGlyLysAsnLeuIleProProValAlaGlyGI 1175  
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2845 CACCATGAAGACGCTGACGAGACCGACCTGTACTGTGAGCCCCCGGAGGTGAGCCCCC 2786  
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2785 GCCCAAGCGCGCAGAAACGAGACACACACACTGCGCGAGTTCAATTGTGTGAAGTT 2726

1684	AG---ATCCTGTGGACCTGGACCTGACGTCACAGCGGAGGGCCGGTGGAGCGCGTCA	1628	DB
1582	snThrLeuAlaHisTyrGlnValProAspGlySerValValAlaLeuValSerLysGlnV	1602	QY
1627	ACACCCATTGACACTACATGTCGGGATGGAGCCACCCCTCATCTG-----	1581	DB
1602	alThrAlaTyrAsnAlaValAsnAsnSerThrValSerArgThrSerAlaSerLysTyrG	1622	QY
1580	-----TCCAAGGTGGGGGTCTCCAGCAGCCCGAGGACAGACCCAGC	1541	DB
1622	luAsnMetIleArgTyrThrGlySerProAspSerLeuArgSerArgThrProMetIle	1642	QY
1540	AGGACCTG-----CCTGGGGAGCGCCATGCCCTC-----	1512	DB
1642	hrProAspLeuGlnSerGlyValLysMetTyrHisLeuValLysAsnHisGluHisGlyA	1662	QY
1511	-----CTGGAGGAGAGAAACCGGGTGTGCACCTGTGTGGCGCCAGCAGAGGTGG	1460	DB
1662	spGlnLysGluGlyAspArgGlySer-----LysMetValSerG	1675	QY
1459	ACAGGGCCAGTCCAAAGAGGACGCGTGAAGAGAGAGGAGCGGACGAGAGCCATCACCG	1400	DB
1675	luIleTyrLeuThrArgLeuLeuAlaThrLysGlyThrLeuGlnLysPheValAspAspL	1695	QY
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1695	euPheGluThrIlePheSerThrAlaHisArgGlySerAlaLeuProLeuAlaIleLysT	1715	QY
1339	TCCTCCAGACGCTGTGGCGCTCGGAC-----GCGGTGCCACCTGCAGTCAAGT	1289	DB
1715	YrMetPheAspPheLeuAspGluGlnAlaAspLysHisGlyIleHisAspProHisValA	1735	QY
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1735	rgHisThrTrpLysSerAsnCysLeuProLeuArgPheTrpValAsnMetIleLysAsnP	1755	QY
1228	TCCACATCTCGAAGACGAACAGTTTACCGCTCCGGTTCTGGGTGAAACATCTCCAGAACC	1169	DB
1755	roGlnPheValPheAspIleHisLysAsnSerIleThrAspAlaCysLeuSerValValA	1775	QY
1168	CCCACTTCATCTTTGACGTGCATGTCCAGAGGTGGTGGACGCTTCGTGTCAGTCACTG	1109	DB
1775	laGlnThrPheMetAspSerCysSerThrSerSerGluHisArgLeuGlyLysAspSerPro	1795	QY
1108	CGCAGACCTTCATGGATGCTCCAGCGCACGGAGCATAAAGCTGAGCGCGGATTCCTCCA	1049	DB
1795	erAsnLysLeuLeuTyrAlaLysAspIleProSerTyrLysAsnTrpValGluArgTyrT	1815	QY
1048	GCACAAAGCTGCTGTACGCCAAGAGATCTCCACCTACAAGAATGTGTGAGGATTACT	989	DB
1815	YrSerAspIleGlyLysMetProAlaIleSerAspGlnAspMetAsnAlaTyrLeuAlaG	1835	QY
988	ACAAGGGGATCCGGCAGATGGTGACGTCAGGTCCAGCAGCAGGACATGAACACACAC	929	DB
1835	luGlnSerArgMetHisMetAsnGluPheAsnThrMetSerAlaIleuSerGluIlePheS	1855	QY
928	AGATTTCCTCCGGCGCACACGGACTCCTTGAACACCTCGTGGCACTCCACAGCTCTACC	869	DB
1855	erTyrValGlyLysTyrSerSerGluGluIleLeuGlyProLeuAspHisAspAspGlnCysG	1875	QY
868	AATACACGCAGAGTACTATGACAGAGATCATCATGCTCTGGAGGAGGATCTCTCCGCC	809	DB
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US-10-240-425-350  
; Sequence 350, Application US/10240425  
; Publication No. US20040033502A1  
; GENERAL INFORMATION:  
; APPLICANT: Williams, Amarda



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; TITLE OF INVENTION: Gene Expression Profiles in Esophageal Tissue
; FILE REFERENCE: 44921-5026
; CURRENT APPLICATION NUMBER: US/10/240,425
; CURRENT FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: PCT/US01/09847
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: US 60/193,446
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 1598
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 350
; LENGTH: 6754
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20040033502A1 AB014520
US-10-240-425-350

Alignment Scores:
Pred. No.:      8,886-258      Length:      6754
Score:          2475.50       Matches:    650
Percent Similarity: 48.64%     Conservative: 334
Best Local Similarity: 32.13%   Mismatches:  749
Query Match:    24.78%        Indels:     293
DB:              13           Gaps:       59

US-09-964-956-13 (1-1896) x US-10-240-425-350 (1-6754)
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Db 418 TATCAGTCTCGGGCGCACCTGAGCTGAGCGCCGAGCGCGCGCGCGCGCGTGCCTGCC 477
QY 91 AspAsnProLysCysTyrrProArgIleValGln---ThrCysAsnGluProLeuThr 109
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Db 538 CTCACCGGACAACATACAAAGAATCTCGAGCTGGACCCCCCGCGCGCGCGCTGGTAGTCGTG 597
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QY 150 GlyVLuProTyrrHisLysLysGluHisTyrlLeuSerGlylValAsnGluSerGlySerVal 169
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QY 170 PheGlyValIleValSerTyrrSerAsnLeuAsp-----180
Db 718 CTGAACGTGGCGCCAACACACCGGCTCCACCGTGGGCTAGTTCTTCCTCCCTCCGCCG 777
QY 181 -----AspLysLeuPheIleAlaThrAlaValAspGlyLysProGluTyrr 195
Db 778 GCGGGCGCGGGGAGCGCCCTGTCTCGTGGCGCGCACGTACACCGCTTACGCGAGCTCG 837
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QY 500 ArgGlnLeuThrArgValProValGluSerCysGlyGlnTyrGlnSerCysGlyGluCys 519  
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QY 520 LeuGlySerGlyAspProHisCysGlyTyrCysValLeuHisAsnThrCysThrArgLys 539  
DB 1855 GTGGGTGGCGGAGCGCTACTCTGCGGCTGGTGGCTGGAGCGCGTGCACCTTGCGAG 1914  
QY 540 GluArgCysGluArgSerLysGluProArgArgPheAlaSerGluMetLys----- 556  
DB 1915 CAGGACTGCACAAATTCAGCGAGCAGCAGCATTTCTGGACCATGGCAGCGAGGCCCGCAGC 1974  
QY 557 GlnCysValArgLeuThrValHisProAsnAsnLysSerValSerGln---TyrAsnVal 575  
DB 1975 CGCTGCTCGCATGACCGTCTGCTTCCGAGATCGATGCGCCAGGAGTACCCAGGC 2034  
QY 576 LeuLeuValLeuGluThrTyrAsnValProGluLeuSerAla---GlyValAsnCysThr 594  
DB 2035 ATGACCTCGAGATCTCGGCGAGCCTGCGCCAGCTTCAGTGCATGGAGATCGCTGTGAC 2094  
QY 595 Phe-----GluAspLeuSerGluMetAspGlyLeuValValGlyAsnGlnLe 610  
DB 2095 TATGGGAACAACATCGGACATGTGGCTCGGCTCCAGCGCCCTGCTTGGTTCACAGATT 2154  
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DB 2155 GCCTACTGCACCTCTCGCGAGGACCATGTTTCGCGCCCTTCCCGCCCAACCCAGGACAC 2214  
QY 631 HisValValGlnLeuGlnLeuLysSerLysGluThrGlyMetThrPheAlaSerThrSer 650  
DB 2215 -----GTGACTGTGTGAGTCTGTGAGGTCAATGGCGGAACATCGTCAAGGCCAAT 2268  
QY 651 PheValPheTyrAsnCysSer-----ValHisAsnSerCysLeuSer 664  
DB 2269 TTCACCATCTAGCACTGCAGCGCCTGCACAAAGTGTACCCCGCACACAGCCTGTACCAAGC 2328  
QY 665 CysValGluSerProTyrArgCysHisTyrCysLysTyrArgHisValCysThrHisAsp 684  
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DB 2389 CAGTCTCGGTGGAGCGCTCACAAACCCACGAGC---CCTCAGGACTGCCCGCGACC 2445  
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DB 2446 CTGCTCTACCCCTGGCACCCCTGCTAGCGGTGCTCCAGAACATCTCGTGGCTCTG 2505  
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DB 2506 GCCAACACTGCCTTTTCCAGGCTGA-----GCCCTGAGTGTAGTTT----- 2550  
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QY 764 AsnThrSerTyrSerTyrGluGlyMetGluIleAsnAsnLeuProValGluLeuThrVal 783  
DB 2611 GTGGTGTCTGCACAGCCCGAGAGCCAGCTG-----TTCCTCGCTCAGCTCCAACTA 2664  
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DB 2665 AAGGGCGCGCCAGCCGATTCCTGACAGCCCTGAGCCCATGCACAGTGTATGCTCTATAAC 2724  
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DB 2725 TGTGCCATGGGAGCCCGCACTGTTCCAGTGCCTGGCGCGGAAGACCTGGGTCCACCTG 2784  
QY 823 CysGlyTyrCysGlnGlyProGlyGlnCysThrLeuArgGlnHisCysProAlaGlnGlu 842  
DB 2785 TGCATGTGAGTGTATGGC-----TGCCGCTGCGGGG-----CCTCTGCGAG--- 2826  
QY 843 SerGlnTrpLeuGluLeuSerGlyAlaLysSerLysCysThrAsnProArgIleThrGlu 862

DB 2827 -----CCCATGGCTGGACCC-----TGCCCGCGCCCCGAGATCCGCGCG 2865  
QY 863 IleIleProValThrGlyProArgGluGlyThrLysValThrIleArgGlyGluAsn 882  
DB 2866 ATTGAGCCCTGAGTGGCCGTGGAGCGGTGGACCTCTGCTCACCATCCGAGGAAGAAC 2925  
QY 883 LeuGlyLeuGluPheArgAspIleAlaSerHisValLysValAlaGlyValGluCysSer 902  
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DB 2986 CCACTCCCTGCACAGATACACGGTGTGGAGGAGATCGTGTGTGTACAGGGCCAGCC--- 3042  
QY 923 ProSerGlnHisAlaGlyPheValGluIleCysValAlaValCysArgProGluPheMet 942  
DB 3043 CCAAGGACCACTCTCAGGTGTGGAGCCGTG-----AACGCTCTTAAGGAG 3087  
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DB 3148 ATGGGCCCCAAGCCCGGGGACACAGGATCACCATTCATGGGAATGACTCCTCATGTAGGC 3207  
QY 983 SerAsnValValMetPheGly---LysGlnProCysLeuPheHisArgSerPro 1001  
DB 3208 TCCGAGCTCCAGTCTCTGTGTGAACGACACAGACCCCTGCACGGAGTGTGCGCACAGAT 3267  
QY 1002 SerTyrIleValCysAsnThrThrSerSerAspGluValLeuGluMetLysValSerVal 1021  
DB 3268 ACCAGCATCGCTGTC-----ACCATGCTGAGGGGGCGCTCGCGGCTCCGCTGCTGTG 3321  
QY 1022 GlnVal-----AspArgAlaLysIleHisGlnAspLeuValPheGlnTyrValGlu 1038  
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DB 3382 AACCGGTCTATCACGGCCATCAGTCCCGCGCAGCCCTGTCAGTGCGCGCAGGACCATC 3441  
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DB 3619 GCAGACGAGTGGCTGTGGCTGAGGAGCTACTGACCCCGAGGAGGCACAGCGGGGAGC 3678  
QY 1133 LysThrAsnPheThrTyrTyrProAsnProValPheGluAlaPheGlyProSerGlyIle 1152  
DB 3679 AGGTTCGCTGGAGTACCTCCCAACCCCACTTCTCTACGGCCCAAGGAGGAGTGG 3738  
QY 1153 LeuGluLeuLysProGlyThrProIleIleLeu-----LysGlyLysAsnLeuIle 1169  
DB 3739 ATCAGACACACCCCGGGGAGCTCTCACCTCTGTATCCACAGGAGCAGGACAGCCTG 3798  
QY 1170 ProProValAlaGlyGlyAsnValLysLeuAsnTyrThrValLeuValGlyGluLysPro 1189  
DB 3799 -----GGGCTCCAGAGTACAGTACCGGGTCAAGTAGGCAAGTAAGC 3843  
QY 1190 CysThrValThrValSerAspValGlnLeuLeuCysGluSerProAsn----- 1205

3844 TGCGACATCCAGATTGCTCTGACAGAATCATCCACTGCTCGGTCAACGAGTCCCTGGGC 3903  
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3904 GCGCGCTGGGGAGTGGCCATCAACATCCAGTAGGAACTTCAACGAGACATCGCC 3963  
1225 MetValTyrIleAlaProAspSerProLeuSerLeuProAlaIleValSerIleAlaVal 1244  
3964 ACATGTCAGCTGGGGGTAGC-----GAGACGGCCATCATCGTGTCCATCGTCATC 4014  
1245 AlaGlyGlyLeuLeuIlePheIleValAlaValLeuAlaTyrLysArgLysSer 1264  
4015 TGCAGCGTCTGCTGCTCTCCGCTGGTGGCC---CTGTGCTCTTCTGTACCAAGAGC 4071  
1265 ArgGluSerAspLeuThrLeuLysArgLeuGlnMetGlnMetAspAsnLeuGluSerArg 1284  
4072 CGAGCTGCTGAGCTTACTGCGCAGAGAGAGCTCTGCAGATGGAGAGATGGAACTCTCAG 4131  
1285 ValAlaLeuGluCysLysGluAlaPheAlaGluLeuGlnThrAspLysHisGluLeuThr 1304  
4132 ATCCGAGAGAAATCCGAAAGCTTCGCTGAGCTGCAGACACATGACATCTCACCC 4191  
1305 SerAspLeuAsp---GlyAlaGlyIleProPheLeuAspTyrArgThrTyrThrMetArg 1323  
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1324 ValLeuPhePro----- 1327  
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1328 -----GlyIleGluAspHisProValLeuArgAspLeuGlu 1339  
4312 CTCACCTCCAGCGGAGCTCCAGGACACAGAAACCCCACTGCTGGGAGAGTGGAG 4371  
1340 ValProGlyTyrArgGlnGluArgValGluLysGlyLeuLysLeuPheAlaGlnLeuIle 1359  
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4726 CTGCTGTGTGTGTCATCAAGAGCAATCAACAAAGGCTCCATCAGCGCCATCAAGAGC 4785  
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5178 ----- 5178  
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5734 GAGATGAATGCCATCTCGCGAGGAGTCCGAGGAATACCAAGATGAGTTCACACCAAT 5793  
1848 SerAlaLeuSerGluIlePheSerTyrValGlyLysTyrSerGluGluIleLeuGlyPro 1867  
5794 GTGGCCATGGCAGAGATTATTAGTACCCCAAGAGGTATCGCGCGAGTATGTCGCCGC 5853  
1868 LeuAspHisAspAspGlnCysGlyLysGlnLysLeuAlaTyrLysLeuGlnValIle 1887  
5854 CTGGAGGCCAACCCACGCGCGGAGGACACAACACTGCAGACACAGTTTTCAGCAGGTGTG 5913



[illegible]

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3898 CACTGCTCGTCAACAGAGTCCCTGGCGCGCGCTGGGGAGCTGCCATCACATCCAG 3957  
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3958 GTAGGGAACCTTCAACACAGACATCCGACACATCGACGCTGGGGGCGAGC-----GAG 4008  
1236 LeuProAlaIleValSerIleAlaValAlaGlyGlyLeuLeuIleIlePheIleValAla 1255  
4009 ACGCCATCAGTCGTCATCGTCAGCGCTCTGTCGCTGCTCTCTCGGTGGTGGCC 4068  
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4069 ---CTGTTCTGCTTCTTACCAAGAGCGAGCTGCTGAGCGTTACTGGCAGAGAGCGCTG 4125  
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4126 CTGAGATGGAGAGATGGAAATCTCAGATCCGAGGAGAAATCCGCAAGAGCTTCGCTGAG 4185  
1296 LeuGlnThrAspIleHisGluLeuThrSerAspLeuAsp---GlyAlaGlyIleProPhe 1314  
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1571 ThrThrLysIleGluAsnAspTrpLysArgLeuAsnThrLeuAlaHisTyrGlnValPro 1590  
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1591 AspGlySerValValAla-----LeuValSerLysGlnValThrAlaTyrAsnAlaVal 1608  
5137 GAAGGTGCTCCTCGCATGAGTCTCATAGACAAGAA----- 5175  
1609 AsnAsnSerThrValSerArgThrSerAlaSerLysTyrGluAsnMetIleArgTyrThr 1628  
5176 ---GACACACACTGGCGGAGTGA----- 5199  
1629 GlySerProAspSerLeuArgSerArgThrProMetIleThrProAspLeuGluSerGly 1648  
5200 -----GACTTGGACACA--- 5211  
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5212 GAGAAATATTTCCATTTGCTGCTGCTACGAGAGCTGGCGAGCCCAAGAGTCTCAC 5271  
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1679 ThrArgLeuLeuAlaThrLysGlyThrLeuGlnLysPheValAspLeuPheGluThr 1698  
5314 ACCGCTGCTCTCCACCAAGGCGAGCTTGCAGAGATTTCTGGATGACCTGTTCAGAGCC 5373  
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5728 CAGGACATCACCGCTCAGCAGCAAGAGATGAATGCCCATCTCGCGAGGAGTGGAG 5787  
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5788 AATACCAAGATGAGTTCAACCAATGTGGCCATGGCAGAGATTTATAGTACGCCAAG 5847  
1859 LysTyrSerGluGluIleLeuGlyProLeuAspHisAspAspGlnCysGlyLysGlnLys 1878

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Db      5848 AGGTATCGCGCAGATATGCGCGCTGGAGGCAACCCACCGCGCGGAGACACAA 5907
Qy      1879 LeuAlaTyrLysLeuGluGlnValIleThrLeuMet 1890
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RESULT 12
US-10-087-192-1943
; Sequence 1943, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: CANCER
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1943
; LENGTH: 6340
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-087-192-1943

Alignment Scores:
Pred. No.:      5,21e-248      Length:      6340
Score:          2385.50
Percent Similarity: 47.70%
Best Local Similarity: 31.89%
Query Match:    23.88%
Indels:         341
Gaps:           13

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Db      94 TATCAGCTGTGGCGCGCCAACTGAGCTGGAGCGCGGCGCGCGCGCGCGCGCGCGCG 153
Qy      91 AspAsnProLysCysTyrProPheArgIleValGln---ThrCysAsnGluProLeuThr 109
Db      154 GACAGCGCGCTGTGTACCGCTCCGAGCTCGCGAGCGCTCGTGGCGAGCACCGCGCGCG 213
Qy      110 ThrThrAsnAsnValAsnLysMetLeuLeuIleAspTyrLysGluAsnArgLeuIleAla 129
Db      214 CTCACGGACAACTACAAAGATCTGACGTGGACCCCGCGCGCGCGCGCGCGCGCGCG 273
Qy      130 CysGlySerLeuTyrGlnGlyIleCysLysLeuLeuArgLeuGluAspLeuPheLysLeu 149
Db      274 TGGCGCGCGCTG----- 285
Qy      150 GlyGluProTyrHisLysLysGluHisTyrLeuSerGlyValAsnGluSerVal 169
Db      286 -----CTCGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 315
Qy      170 PheGlyValIleValSerTyrSerAsnLeuAspLysLeuPheIleAlaThrAlaVal 189
Db      316 AGTCCTCTTCCTCCCGCGCAACCGCGCTGGAGGACCAACCGCTTC----- 360
Qy      190 AspGlyLysProGluTyrPheProThrIleSerSerArgLysLeuThrLysAsnSerGlu 209
Db      361 -----GAGAACACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 408

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Qy      210 AlaAspGlyMetPheAlaTyrValPheHisAspGluPheValAlaSerMetIleLysIle 229
Db      409 CTGCGCAAGCTCTTCACCTTCGACCTCAAC----- 438
Qy      230 ProSerAspThrPheThrIleIleProAspPheAspIleTyrTyrValTyrGlyPheSer 249
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Qy      250 SerGlyAsnPheValTyrPheLeuThr-----LeuGlnProGluMetValSerProPro 267
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Qy      268 GlySerThrThr----- 273
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Qy      274 GlnValTyrThrSerLysLeuValArgLysCysLysGluAspThrAlaPheAsnSerTyr 293
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Qy      294 ValGluValProIleGlyCysGluArgSerGlyValGluTyrArgLeuLeuGlnAlaAla 313
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Qy      314 TyrLeuSerLysAlaGlyAlaValLeuGlyArgThrLeuGlyValHisProAspAspAsp 333
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Qy      374 CysTyrArgGlyGluGlyThrLeu-----AspLeuAlaTrpLeuLysVal 388
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Qy      389 LysAspIleProCysSerSerAlaLeu-----LeuThrIleAspAsnAsnPheCys 405
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Qy      516 CysGlyGluCysLeuGlySerGlyAspProHisCysGlyTyrCysValLeuHisAsnThr 535
Db      1279 TGTGGGAGCTGCGTGGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1338
Qy      536 CysThrArgLysGluArgCysGluArgSerLysGluProArgPheAlaSerGluMet 555

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Db	1399	GAGGCCCCAGCCGCTGTCCTGACCATGCTGCTCCGAGATGATGTCGCCAG	1458
Qy	573	---TyrAsnValLeuLeuValLeuThrTyrAsnValProGluLeuSerAla---Gly	590
Db	1459	GAGTACCCAGGCGATCTCGAGATCTCGGCGAGCCTGCGCCAGCTCAGTGGCATGGAG	1518
Qy	591	ValAsnCysThrPhe-----GluAspLeuSerGluMetAspGlyLeuValVal	606
Db	1519	ATGGCTGTGATATGGGAACAACATCCGCACTGTGGCTCGGTCGCCAGCCCTGCTTT	1578
Qy	607	GlyAsnGlnIleGlnCysTyrSerProAlaAlaLysGluValProArgIleIleThrGlu	626
Db	1579	GGTCACCAAGATGCTCACTGCAACCTCTCGCGAGGACCAAGTTTCGCGCCCTCCCCCCC	1638
Qy	627	AsnGlyAspHisHisValValGlnLeuGlnLeuLysSerLysGluThrGlyMetThrPhe	646
Db	1639	AACCAAGGACCA-----GTGACTGTTGAGATGTTCTGTGAGGTCAATGGCGGAACATC	1692
Qy	647	AlaSerThrSerPheValPheTyrAsnCysSer-----ValHisAsn	660
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Qy	661	SerCysLeuSerCysValGluSerProTyrArgCysHisTyrCysLysTyrArgHisVal	680
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Qy	681	CysThrHisAspProLysThrCysSerPheGlnGluGlyArgValLysLeuProGluAsp	700
Db	1813	TGTGTTTCAACCACTCTCGGTGCGAGCGCTCACCAACCCCAAGAGC---CCTCAGGAC	1869
Qy	701	CysProGlnLeuLeuArgValAspLysIleLeuValProValGluValIleLysProIle	720
Db	1870	TGCCCCCGGACCTGCTCTCACCCCTGGCACCGGTGCTACGGGTGGCTCCCAAGACATC	1929
Qy	721	ThrLeuLysAlaLysAsnLeuProGlnProGlnSerGlyGlnArgGlyTyrGluCysIle	740
Db	1930	CTGGTGCTCTGGCCAAACACTGCTTTTTCAGGGTGCA-----GCCCTGAGTGTAGT	1983
Qy	741	LeuAsnIleGlnLysSerGluGlnArgValProAlaLeuArgPheAsnSerSerVal	760
Db	1984	TTT-----GGGCTGAGGAGATCTTCGAGGCTGTGGTCAATGATCTGTGTA	2034
Qy	761	GlnCys---GlnAsnThrSerTyrSerTyrGluGlyMetGluLeuAsnLeuProVal	779
Db	2035	CGCTGTGACCAAGTGTGCTGCACACGACCCCGAAGAGCCAGGTG-----TTCCCGCTC	2088
Qy	780	GluLeuThrValValTyrAsnGlyHisPheAsnIleAspAsnProAlaGlnAsnLysVal	799
Db	2089	AGCCTTCCAACTAAAGGGCGGCGCAGCCGATCTCTGGACAGCCCTGAGCCCATGACATC	2148
Qy	800	HisLeuTyrLysCysGlyAlaMetArgGluSerCysGlyLeuCysLeu---LysAlaAsp	818
Db	2149	ATGGTCTATACTAGTGCATGGCGACCCCGACTGTTCCAGTGTGCTGGCGCGGAGAC	2208
Qy	819	ProAspPheAlaCysGlyTyrCysGlnGlyProGlyGlnCysThrLeuArgGlnHisCys	838
Db	2209	CTGGGTCACTGTGATGTGGAGTATGGC-----TGCCGCTCGCGGG-----	2253
Qy	839	ProAlaGlnGluSerGlnTyrLeuGluLeuSerGlyAlaLysSerLysCysThrAsnPro	858
Db	2254	CCTCTGCA-----CCCATGGGTGGCACC-----TGCCCGCCGCCCC	2289
Qy	859	ArgIleThrGluIleIleProValThrGlyProArgGluGlyGlyThrLysValThrIle	878
Db	2290	GAGATCCCGCGGATGAGCCCTGAGTGGCCGCTTGGACGGTGGACCTCTGACCAATC	2349
Qy	879	ArgGlyGluAsnLeuGlyLeuGluPheArgAspIleAlaSerHisValLysValAlaGly	898

Db	2350	CGAGGAAGAACTGGGGCGGCGCTCAGTGAGTGGGCCCAACGGCGTGTGGATTGGTGT	2409
Qy	899	ValGluCysSerProLeuValAspGlyTyrIleProAlaGluGln-----	913
Db	2410	GTGGCTGTGAGCCACTGCTCAGACATACACGGTGTGGAGGAGTGGCCCTGGGGGCC	2469
Qy	914	-----IleValCysGluMetGlyGluAla	921
Db	2470	AAGGACCGCTGGGTGACCAACAGCACCTCCCTCAGATCGTGTGTGTCAAGGGCCAGC	2529
Qy	922	LysProSerGlnHisAlaGlyPheValGluIleCysValAlaValCysArgProGluPhe	941
Db	2530	---CCAGGACCACTCTCAGGTGTGGTGACCGTG-----AACGCTCTAAG	2571
Qy	942	MetAlaArgSerSerGlnLeuTyrTyrPheMetThrLeuThrLeuSerAspLeuLysPro	961
Db	2572	GAGGGCAAGTCCCGGACCGCTTCTCTACGCTGCTGCCCTGTCCACTCCCTGGAGCCT	2631
Qy	962	SerArgGlyProMetSerGlyThrGlnValThrIleThrGlyThrAsnLeuAsnAla	981
Db	2632	ACCATGGGCCCCAAGCGGGGCGACAGGATCACCATCCATGGGAAATGATCCATCTA	2691
Qy	982	GlySerAsnValValMetPheGly---LysGlnProCysLeuPheHisArgArgSer	1000
Db	2692	GGCTCCAGCTCCAGTCTCTGTGTAACGACACAGACACCTTGACGGAGCTGATGCGACA	2751
Qy	1001	ProSerTyrIleValCysAsnThrThrSerSerAspGluValLeuGluMetLysValSer	1020
Db	2752	GATACAGCATCGCTGC-----ACCATGCTGAGGGGGCGCTGCGCGCTCCGGTGCCT	2805
Qy	1021	ValGlnVal-----AspArgAlaLysIleHisGlnAspLeuValPheGlnTyrVal	1037
Db	2806	GTGTGTGGCTTCAGCGCTCGGGCTCGGTGTCAGCGGCACTCACCTCTCTGTGTACATG	2865
Qy	1038	GluAspProThrIleValArgIleGluProGluTyrPheIleVal-----	1052
Db	2866	CAGAACCGGTATCATCAGGCCATCAGTCCCGCGCAGCGCTGTGAGGCTCTCTGGGGCT	2925
Qy	1053	-----SerGlyAsnThrProIleAlaValTyr	1061
Db	2926	GCAGGTGCATGATAGTTTGTCTGCCCGAGTGGCGGCGAGACCATCATCAGTGGCT	2985
Qy	1062	GlyThrHisLeuAspLeuIleGlnAsnProGlnIleArgAlaLysHisGlyLysGlu	1081
Db	2986	GGTGAGCGTTCCACATGTGCAGATGTGTCCATGGCGCTCCACCATGTCGCGGAG	3045
Qy	1082	HisIleAsnIleCysGluValLeuAsnAlaThrGluMetThrCysGlnAlaProAlaLeu	1101
Db	3046	CCC---ACGCTCTGCAAGTTCTCAACTCCACCTCATCCTGCGCGCTCCCCCGGGCC	3102
Qy	1102	AlaLeuGlyProAspHisGlnSerAspLeuThrGluArgProGluGluPheGlyPheIle	1121
Db	3103	CTGAGCAACGATCAGCGCCAGTGGACTTCTTCATCAATGGGGCGGCGCTACGACAGCAG	3162
Qy	1122	LeuAspAsnValGlnSerLeuLeuIleLeu-----AsnLysThrAsn	1135
Db	3163	GTGGCTGTGGCTGAGGAGTACTTGGACCCCGAGGAGGCACAGCGGGCGAGAGTTCCGC	3222
Qy	1136	PheThrTyrTyrProAsnProValPheGluAlaPheGlyProSerGlyIleLeuLeu	1155
Db	3223	CTGAGTACTCTCCCAACCCACAGTTCTCTACGGCCAAAGGGAGAGTGGATCAAGCAC	3282
Qy	1156	LysProGlyThrProIleIleLeu-----LysGlyLysAsnLeuIle	1169
Db	3283	CACCCGGGAGCGCTCTCACCTCGTTATCCACGTGAGCACCAAGGG-----	3330
Qy	1170	ProProValAlaGly-----GlyAsnValLysLeuAsnTyrThrVal	1183
Db	3331	-----GCCGGGAGGAGCGAGCAGCGCTGGGCTCCAGAGTACAGATGACCGGGTTC	3381
Qy	1184	LeuValGlyGluLysProCysThrValThrValSerAspValGlnLeuLeuCysGluSer	1203
Db	3382	AAGATAGGCCAAGTAAAGTGGACATCCAGATTGCTCTGACAGAAATCATCATCTGCTCG	3441



1204	ProAsn	-----LeuileGlyArgHisLysValMetAlaArgValglyGly	1218
3442	GTCAACGAGTCCCTGGGCGCGCGCTGGGCGAGCTGCCCATCAACAATCCAGTAGGGAAC	3501	
1219	MetGluTyrSerProGlyMetValTyrIleAlaProAspSerProLeuSerLeuProAla	1238	
3502	TTCAACACGACCATCGCCACACTGCAGCTGGGGGGGACG	3552	
1239	IleValSerIleAlaValAlaGlyLeuLeuIleIlePheIleValAlaValleuIle	1258	
3553	ATCGTGTCCATCGTCACTATGCAGCGTCTGCTGTGCTCCGTGGTGCC--CTGTTC	3609	
1259	AlaTyrLysArgLysSerArgGluSerAspLeuThrLeuLysArgLeuGlnMetGlnMet	1278	
3610	GTCTTCTGTACACAGAGCGAGCTGCTGAGCGTTACTGGCAGAACACGCTGCTGCAGATG	3669	
1279	AspAsnLeuGluSerArgValAlaLeuGlu	1288	
3670	GAGGAGATGGAAATCTCAGATCCGAGAGGAATCCGAAAGGGGATGGGTCTCTGGGCGCG	3729	
1289	-----CysLysGluAlaPheAlaGluLeuGlnThrAspIleHisGlnLeu	1303	
3730	TCACGGCTGCTCGGTGTTCGCGCAGCGTTCGTGTAGCTGCACACAGACATGACAGATCTC	3789	
1304	ThrSerAspLeuAsp--GlyAlaGlyIleProPheLeuAspTyrArgThrTyrThrMet	1322	
3790	ACCAAGGAGCTGAACCGCAGCCAGGGCATCCCTTCCTGGAGTATAAGCACTTCGTGACC	3849	
1323	ArgValLeuPhePro	1327	
3850	CGCACCTCTTCCCCAAGTGTTCCTCCCTTTATGAAGCGTTACGTGCTGCCCTCCCGAG	3909	
1328	-----GlyIleGluAspHisProValLeuArgAspLeu	1338	
3910	ACCTCAACTCCAGGGCAGCTCCGAGGCACAGGAACCCACCCACTGCTGGGAGAGTGG	3969	
1339	GluValProGlyTyrArgGlnGluArgValGluLysGlyLeuLysLeuPheAlaGlnLeu	1358	
3970	AAGATTCCTGAGAGCTCCGCGCCCAACATGGAAGGGAATTAGCTTGTTCCTCACTA	4029	
1359	IleAsnAsnLysValPheLeuLeuSerPheIleArgThrLeuGluSerGlnArgSerPhe	1378	
4030	CTCAACAACAAGCACTTCCTCATCGCTTTGTTCACGCGCTGGAGCAGCAGGAAGCACTT	4089	
1379	SerMetArgAspArgGlyAsnValAlaSerLeuIleMetThrValLeuGlnSerLysLeu	1398	
4090	CGCGTGGCGACAGTGCAGCTGGCTCGCTGCTACCATCGCGTGCACGCAAGCTG	4149	
1399	GluTyrAlaThrAspValLeuLysGlnLeuLeuAlaAspLeuIleAspLysAsnLeuGlu	1418	
4150	GAGTACTACACCAAGCATCATGAAGGAGCTGCTGGTGACCTCATTCACGCGCTCG	4203	
1419	SerLysAsnHisProLysLeuLeuLeuArgArgThrGluSerValAlaGluLysMetLeu	1438	
4204	CGCGCAAGAACCCCAAGCTCATGCTCGCGCGCACAGAGTCTGTGTGGAGAAAGATGCTC	4263	
1439	ThrAsnTrpPheThrPheLeuLeuTyrLysPheLeuLysGluCysAlaGlyGluProLeu	1458	
4264	ACCAACTGGATGTCATCTCATGTACAGCTGCTCGGAGAGCGGTGGGGAGCCATTC	4323	
1459	PheSerLeuPheCysAlaIleLysGlnGlnMetGluLysGlyProIleAspAlaIleThr	1478	
4324	TTCTGTGTGTGTGTCATCAAGACAGCAAAATCAACAAGGGCTCCCATCGACGCATCA	4383	
1479	GlyGluAlaArgTyrSerLeuSerGluAspLysLeuIleArgGlnGlnIleAspTyrLys	1498	
4384	GGCAAGGCCCGCTACACACTCAATGAGGAGTGGCTGCTGGGGAGAACATCCGAGGCCAAG	4443	
1499	ThrLeuValLeuSerCysValSerProAspAsnAlaAsnSerProGluValProValLys	1518	
4444	CCCGGAACCTGAAC--GTGTCTCCAGGGCTGTGGCACTGTGGCACTGCTGCTGCGCGG	4500	

Db 5452 GCGCTGGAGGCAACCCAGCGCCGAGGACACAACTGCAGCACAGTTTGGACGAGGTG 5511
Qy 1887 lIeThrLeuMet 1890
Db 5512 GTGGCTTTGATG 5523
RESULT 13
US-10-108-260A-802
; Sequence 802, Application US/10108260A
; Publication No. US20040005560A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: NO. US20040005560A1el full length cDNA
; FILE REFERENCE: H1-A0106
; CURRENT APPLICATION NUMBER: US/10/108,260A
; PRED. FILING DATE: 2002-03-27
; NUMBER OF SEQ ID NOS: 5458
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 802
; LENGTH: 3666
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-108-260A-802
Alignment Scores:
Pred. No.: 1
Score: 1.53e-209
Length: 3666
Matches: 3666
Percent Similarity: 100.00%
Conservative: 0
Best Local Similarity: 100.00%
Mismatches: 0
Query Match: 20.31%
Indels: 0
Gaps: 0
DB: 16
US-09-964-955-13 (1-1896) x US-10-108-260A-802 (1-3666)
Qy 1510 AlaAsnSerProGluValProVallylLeuAsnCysAspThrIleThrGlnVallys 1529
Db 2 GCAACAGCCCGAGTCCAGTAAGATCTCACTGTGACCACTCACTCAGGTCAAG 51
Qy 1530 GluLysIleLeuAspAlaIlePheLysAsnValProCysSerHisArgProLysAlaIle 1549
Db 62 GAGAGATTCTGGATCCCATCTTCAAGATGTGCTTGTCCACCGGCCCAAGCTGCA 121
Qy 1550 AspMetAspLeuGluTrpArgGlnGlySerGlyAlaAatMetIleLeuGlnAspGluAsp 1569
Db 122 GATATGGATCTGGAGTGGGCAAGGAAGTGGGGCAAGGATGATCTTGCAGGATGAAGAC 181
Qy 1570 IleThrThrLysIleGluAsnAspTrpLysArgLeuAsnThrLeuAlaHisTyrGlnVal 1589
Db 182 ATCAACACCAAGATTGGAATGATTGGAAGCGACTGAACACACTGGCCCACTACCAAGGTG 241
Qy 1590 ProAspGlySerValValAlaLeuValSerLysGlnValThrAlaTyrAsnAlaValAsn 1609
Db 242 CCAGATGGTTCCGTGGTGGCATTTAGTGTCCAGCAGGTGACAGCCCTATAACGAGTGAAC 301
Qy 1610 AsnSerThrValSerArgThrSerAlaSerLysTyrGluAsnMetIleArgTyrThrGly 1629
Db 302 AACTCCACCGTCTCCAGGACCTCAGCAAGTAATATGAAACATGATCCGGTACAGGGGC 361
Qy 1630 SerProAspSerLeuArgSerArgThrProMetIleThrProAspLeuGlnSerGlyVal 1649
Db 362 AGCCCCGACAGCTCCCGTCCAGGACCTCAGCAAGTATGATCACTCTCCTGAGGAGTGGAGTC 421
Qy 1650 LysMetTrpHisLeuValLysAsnHisGluHisGlyAspGlnLysGluGlyAspArgGly 1669
Db 422 AAGATGTGGCACTTAGTGAAGAACCCAGCAGCAGGAGACGAGAGGAGGGGAGCCGGGG 481
Qy 1670 SerLysMetValSerGluIleTyrLeuThrArgLeuLeuAlaThrLysGlyThrLeuGln 1689
Db 482 AGCAAGATGGTGTCTGAAATCTACCTGACCCGACTCTGCGCCACTAAGGGCAGCTGCAG 541
Qy 1690 LysPheValAspAspLeuPheGluThrIlePheSerThrAlaHisArgGlySerAlaLeu 1709

Db 542 AAGTTTGTGATGACCTTTTGAGACCATTTTTCAGCACGGCACACCGTGGCTCTGCGCTG 601
Qy 1710 ProLeuAlaIleLysTyrMetPheAspPheLeuAspGluGlnAlaAspLysHisGlyIle 1729
Db 602 CCCCTGGCCATCAAGTACATGTTTGACTTCTCGGATGAGCAGCTGATTAACATGGCATT 661
Qy 1730 HisAspProHisValArgHisThrTrpLysSerAsnCysLeuProLeuArgPheTrpVal 1749
Db 662 CATGACCCGACGTCGCCCATACCTGGAAGAGCAATTGCTTGCCTGAGGTTTGGGTC 721
Qy 1750 AsnMetIleLysAsnProGlnPheValPheAspIleHisLysAsnSerIleThrAspAla 1769
Db 722 AACATGATCAAGAACCCGAGTTTGTGTTGACATCCATAAGAACAGCATCACAGACGCC 781
Qy 1770 CysLeuSerValValAlaGlnThrPheMetAspSerCysSerThrSerGluHisArgLeu 1789
Db 782 TGCTCTCTGTGTGGCTCAGACCTTCATGGACTCTTCTCCACGTCAGAGCACCGGCTG 841
Qy 1790 GlyLysAspSerProSerAsnLysLeuLeuTyrAlaLysAspIleProSerTyrLysAsn 1809
Db 842 GGCAAGGACTCGCCCTCCAAAGCTGCTGTATGCCAAGGACATCCCCAGCTACAAGAAT 901
Qy 1810 TrpValGluArgTyrTyrSerAspIleGlyLysMetProAlaIleSerAspGlnAspMet 1829
Db 902 TGGTGGAGAGGTATTACTCAGACATAGGAAGATGCCAGGCATCAGCGCAAGACATG 961
Qy 1830 AsnAlaTyrLeuAlaGluGlnSerArgMetHisMetAsnGluPheAsnThrMetSerAla 1849
Db 962 AACGCATACCTGCTGAGCAGTCCCGGATGCACATGATGATGATCAACCATGAGTGCA 1021
Qy 1850 LeuSerGluIlePheSerTyrValGlyLysTyrSerGluGluIleLeuGlyProLeuAsp 1869
Db 1022 CTCACAGATCTTCTCTATGTGGCAATATCAGCGAGGAGATCTTGGACCTCTGGAC 1081
Qy 1870 HisAspAspGlnCysGlyLysGlnLysLeuAlaTyrLysLeuGluGlnValIleThrLeu 1889
Db 1082 CACGACGACGATGTGGGAAGCAGAACTGGCCTCAAACTAGAACAAAGTCATAACCCCTC 1141
Qy 1890 MetSerLeuAspSer 1894
Db 1142 ATGAGCTTAGACAGC 1156
RESULT 14
US-10-276-774-773
; Sequence 773, Application US/10276774
; Publication No. US200400053245A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: No. US200400053245A1el Nucleic Acids and Polypeptides
; FILE REFERENCE: 21272-030
; CURRENT APPLICATION NUMBER: US/10/276,774
; PRED. FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: 05/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: 09/496,914
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 2700
; SOFTWARE: Custom
; SEQ ID NO 773
; LENGTH: 1088
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-276-774-773
Alignment Scores:
Pred. No.: 8
Score: 8.61e-161
Length: 1088
Matches: 1573.50
Conservative: 300
Percent Similarity: 90.70%
Best Local Similarity: 84.51%
Mismatches: 32
Query Match: 15.75%
Indels: 1
Gaps: 1
DB: 13

US-09-964-956-13 (1-1896) x US-10-276-774-773 (1-1088)

QY 1420 LysAsnHisProLysLeuLeuLeuArgThrGluSerValAlaGluMetLeuThr 1439  
Db 27 AGAACCACCCCAAGCTGCTACTGCGCGGAGTGGTGGCAGAGAAGATGTAAGT 86  
QY 1440 AsnTrpPheThrPheLeuLeuLeuTrpLysPheLeuLysGluCysAlaGluProLeuPhe 1459  
Db 87 AACTGGTTCACCTTCTCTTGATTAAGTTCCTCAAGGAGAGCGCTGGGAGCGGTGTT 146  
QY 1460 SerLeuPheCysAlaLeuLysGlnMetGluLysGlyProIleAspAlaIleThrGly 1479  
Db 147 ATGCTGTACTGGCCCATCAAGCACCAGATGGAGAGGCGCCCATTTGACGCCATCAGG 206  
QY 1480 GluAlaArgTyrSerLeuSerGluAspLysLeuIleArgGlnIleAspTyrLysThr 1499  
Db 207 GAGGCACGCTACTCCTCGTGGTGGAGCAAGCTCATTTGCGCACCTGATTGACTACA 266  
QY 1500 LeuValLeuSerCysValSerProAspAsnAlaAsnSerProGluValProValLysIle 1519  
Db 267 CTGACCTGAAGTGTGAACCTTGAGATGAATGAATGACCTGAGGTGGCGGTGAAGGG 326  
QY 1520 LeuAsnCysAspThrIleThrGlnValLysGluLysIleLeuAspAlaIlePheLysAsn 1539  
Db 327 CTGACTGTGACACGGGACCCAGCGCAAGGAGAGCTGCTGGACGCTGCTTACAAGGC 386  
QY 1540 ValProCysSerHisArgProLysAlaAlaAspMetAspLeuGluTrpArgGlnGlySer 1559  
Db 387 GTGCCCTACTCCAGCGGCGCCAGGCGCGGACATGACCTGGAGTGGCGCCAGCGCGC 446  
QY 1560 GlyAlaArgMetIleLeuGlnAspGluAspIleThrLysIleGluAsnAspTrpLys 1579  
Db 447 ATGCGCGCATCATCTCTGAGGACGAGAGCGTCACCCCAAGATTGACCAACGATTGGA 506  
QY 1580 ArgLeuAsnThrLeuAlaHisTyrGlnValProAspGlySerValValAlaLeuValSer 1599  
Db 507 AGGCTGAACACACTGCTCACTACAGGTGACAGACGGGTCTCTGGTGGCACTGGTGC 566  
QY 1600 LysGlnValThrAlaTyrAsnAlaValAsnAsnSerThrValSerArgThrSerAlaSer 1619  
Db 567 AAGCAGCGTCCGCCATACATCTCCACTCTCTCCACTTACCAAG---TCCCTCAGC 623  
QY 1620 LysTyrGluAsnMetIleArgTyrThrGlySerProAspSerLeuArgSerArgThrPro 1639  
Db 624 AGATACGAGAGCATGCTGGCGACGGCCAGCAGCGCCGAGCGCTGGCTCGCGCAGCC 683  
QY 1640 MetIleThrProAspLeuGluSerGlyValLysMetTrpHisLeuValLysAsnHisGlu 1659  
Db 684 ATGATCAGCGCCGACCTGGAGCGGCACCAAGCTGTGGCACCCTGGTGAAGAACCCAG 743  
QY 1660 HisGlyAspGlnLysGluGlyAspArgGlySerLysMetValSerGluIleTyrLeuThr 1679  
Db 744 CACTGGACCGAGCGTGAGGGTGACCGCGGAGCAAGATGCTCTCGAGATCTACTTGAC 803  
QY 1680 ArgLeuLeuAlaThrLysGlyThrLeuGlnLysPheValAspAspLeuPheGluThrIle 1699  
Db 804 CGGCTACTGGCCACCAAGGCGCACACTGCAAGAGTTTGTGGACGACCTGTTTGAGACC 863  
QY 1700 PheSerThrAlaHisArgGlySerAlaLeuProLeuAlaIleLysTyrMetPheAspPhe 1719  
Db 864 TTGAGCAGCGCACACCGGGGCTCAGCCCTGCGCTGGCCATCAAGTACATGTTTGGACT 923  
QY 1720 LeuAspGluGlnAlaAspLysHisGlyIleHisAspProHisValArgHisThrTrpLys 1739  
Db 924 CTGGATGAGCAGCGCGCAAGCAGCATCCAGATGCTGACGTGGCGCCACACTGGAAG 983  
QY 1740 SerAsnCysLeuProLeuArgPheTrpValAsnMetIleLysAsnProGlnPheValPhe 1759  
Db 984 AGCAACTGCTGCGCCCTCGCGCTCTGGGTGAACGTGATCAAGAACCCACAGTTTGTG 1043  
QY 1760 AspIleHisLysAsnSerIleThrAspAlaCysLeuSerValVal 1774  
Db 1044 GACATTACAGAAGACACATCACCGACGCTGCTTGTGCGTGGTG 1088

RESULT 15

US-10-245-752-91  
Sequence 91 Application US/10245752  
Publication No. US20030064473A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin  
APPLICANT: Eaton, Dan  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Goddard, Audrey  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin  
APPLICANT: Smith, Victoria  
APPLICANT: Stephan, Jean-Phillippe  
APPLICANT: Watanabe, Colin  
APPLICANT: Wood, William  
APPLICANT: Zhang, Zemin  
APPLICANT: Fong, Sherman

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC

FILE OF INVENTION: ACIDS ENCODING THE SAME

FILE REFERENCE: P3630R1C86

CURRENT APPLICATION NUMBER: US/10/245,752

CURRENT FILING DATE: 2002-09-16

PRIOR APPLICATION NUMBER: 10/197942

PRIOR FILING DATE: 2002-07-18

PRIOR APPLICATION NUMBER: 60/059114

PRIOR FILING DATE: 1997-09-17

PRIOR APPLICATION NUMBER: 60/063046

PRIOR FILING DATE: 1997-10-24

PRIOR APPLICATION NUMBER: 60/065027

PRIOR FILING DATE: 1997-11-10

PRIOR APPLICATION NUMBER: 60/079689

PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: 60/086478

PRIOR FILING DATE: 1998-05-22

PRIOR APPLICATION NUMBER: 60/087607

PRIOR FILING DATE: 1998-06-02

PRIOR APPLICATION NUMBER: 60/089801

PRIOR FILING DATE: 1998-06-18

PRIOR APPLICATION NUMBER: 60/090557

PRIOR FILING DATE: 1998-06-24

PRIOR APPLICATION NUMBER: 60/090689

PRIOR FILING DATE: 1998-06-25

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 116

SEQ ID NO 91

LENGTH: 2597

TYPE: DNA

ORGANISM: Homo Sapien

US-10-245-752-91

Alignment Scores:

Pred. No.: 3,86e-138 Length: 2597  
Score: 1372.00 Matches: 264  
Percent Similarity: 100.00% Conservative: 1  
Best Local Similarity: 99.62% Mismatches: 0  
Query Match: 13.73% Indels: 0  
DB: 13 Gaps: 0

US-09-964-956-13 (1-1896) x US-10-245-752-91 (1-2597)

QY 194 GluTyrPheProThrIleSerSerArgLysLeuThrLysAsnSerGluAlaAspGlyMet 213  
Db 2 GAGTATTTTCCACCATCTCCAGCGGAAACTGACCAAGAACTCTGAGCGGATGGCATG 61  
QY 214 PheAlaTyrValPheHisAspGluPheValAlaSerMetIleLysIleProSerAspThr 233  
Db 62 TTCGGGTACGCTCTCCATGATGAGTTCGTGGCTCGATGATTAAGATCCCTTCGACACC 121  
QY 234 PheThrIleIleProAspPheAspIleTyrTyrValTyrGlyPheSerSerGlyAsnPhe 253  
Db 122 TTCACCATCATCCCTGACTTTGATATCTATCTATGTGTGTGTGTGTGTGTGTGTGT 181

QY	254	ValTyrPheLeuThrLeuGlnProGluMetValSerProGlySerThrThrLysGlu	273
Db	182	GTCTACTTTTGGACCTCCACCTGAGATGGTGTCTCCACCAGGCTCCACCACCAAGGAG	241
QY	274	GlnValTyrThrSerLysLeuValArgLeuCysLysGluAspThrAlaPheAsnSerTyr	293
Db	242	CAGGTGTATACATCCAAAGCTCGTGAGGCTTTTGCAGGAGGACACAGCCTTCAACTCCTAT	301
QY	294	ValGluValProIleGlyCysGluArgSerGlyValGluTyrArgLeuLeuGlnAlaAla	313
Db	302	GTAGAGGTGCCATTTGGCTGTGAGGCGCAGTGGGTGGAGTACCGCCTGCTCAGGCTGCC	361
QY	314	TyrLeuSerLysAlaGlyAlaValLeuGlyArgThrLeuGlyValHisProAspAspAsp	333
Db	362	TACCTGTCCAAAGCGGGGCGCTGTCTGGCAGGACCTTGGAGTCCATCCAGATGATGAC	421
QY	334	LeuLeuPheThrValPheSerLysGlyGlnLysArgLysMetLysSerLeuAspGluSer	353
Db	422	CTGCTCTTCACCGTCTTCTCCAAGGCGCAGAGCGGAAATGAATCCCTGGATGAGTCG	481
QY	354	AlaLeuCysIlePheIleLeuLysGlnIleAsnAspArgIleLysGluArgLeuGlnSer	373
Db	482	GCCCTGTGCATCTTTCATCTTGAAGCAGATAAATGACCGCATTAAAGGAGCGCTGCAGTCT	541
QY	374	CysTyrArgGlyGluGlyThrLeuAspLeuAlaTyrLeuLysValLysAspIleProCys	393
Db	542	TGTTACCGGGCGGCGGACGCTGGACCTGGCCTGGCTCAAGGTGAAGGACATCCCTTGC	601
QY	394	SerSerAlaLeuLeuThrIleAspAspAsnPheCysGlyLeuAspMetAsnAlaProLeu	413
Db	602	AGCAGTGGCTCTTAACCATTCACGATAACITCTGTGGCTGGACATGAATGCTCCCTG	661
QY	414	GlyValSerAspMetValArgGlyIleProValPheThrGluAspArgAspArgMetThr	433
Db	662	GGAGTGTCCGACATGGTGGTGGAAATCCCGTCTTACCGGAGGACAGGGACCGCATGACG	721
QY	434	SerValIleAlaTyrValTyrLysAsnHisSerLeuAlaPheValGlyThrLysSerGly	453
Db	722	TCTGTATCGCATATGTCTACAAAGAACCACTCTCTGGCCTTTGTGGGCACCAAAAGTGGC	781
QY	454	LysLeuLysLysIle	458
Db	782	AAAGTGAAGAGGAGTG	796

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Job time : 1520 secs